

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Lingping Zhang • Bo Du 	authors <ul style="list-style-type: none"> • Lingping Zhang • Bo Du 		
	title Some New Existence Results for Positive Periodic Solutions to First-Order Neutral Differential Equations with Variable Coefficients	title Some New Existence Results for Positive Periodic Solutions to First-Order Neutral Differential Equations with Variable Coefficients		
	publication_date 2022-10-13 00:00:00	publication_date 2022-10-13 00:00:00		
	source SupportedSources.INTERNET_ARCHIVE	source SupportedSources.SEMANTIC_SCHOLAR		
	journal MDPI AG	journal		
	volume	volume		
	doi 10.3390/math10203770	doi 10.3390/math10203770		
	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20221015023503/https://mdpi-res.com/d_attachment/mathematics/mathematics-10-03770/article_deploy/mathematics-10-03770.pdf?version=1665649233 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/9075831e4b40d0f9ebd9c860271afd07a237a83d 	DUPPLICATES	0
	id id-7977500436322258424	id id-7940836121418272331		
	abstract <p>In this article, we deal with some new existence results for positive periodic solutions for a class of neutral functional differential equations by employing Krasnoselskii's fixed-point theorem and the properties of a neutral operator. Our results generalize corresponding works from the past. An example is given to show the feasibility and application of the obtained results.</p>	abstract <p>In this article, we deal with some new existence results for positive periodic solutions for a class of neutral functional differential equations by employing Krasnoselskii's fixed-point theorem and the properties of a neutral operator. Our results generalize corresponding works from the past. An example is given to show the feasibility and application of the obtained results.</p>		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Zuomao Yan • Li Han 	authors <ul style="list-style-type: none"> • Zuomao Yan • Li Han 	DUPLICATES 1	
	title Globally exponential stability of a partial stochastic differential equation with pseudo almost periodic coefficients and infinite delay	title Globally exponential stability of a partial stochastic differential equation with pseudo almost periodic coefficients and infinite delay		
	publication_date 2021-06-11 00:00:00	publication_date 2021-03-01 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Indian Journal of Pure and Applied Mathematics	journal Indian Journal of Pure and Applied Mathematics		
	volume	volume 52		
	doi 10.1007/s13226-021-00065-0	doi 10.1007/s13226-021-00065-0		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/ace2b07bce1f591baa8e015c1c2aaf53525f12cf 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/2a6c7312d4d0e76c0a83d55d5b9dfbee6e9e0cf9 		
	id id1149662468993123528	id id-1552960064099855510		
	abstract None	abstract None		

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Andriy Stanzytskyi • Oleksandr Stanzytskyi • Oleksandr Misiats 	<ul style="list-style-type: none"> • A. Stanzytskyi • Oleksandr Stanzytskyi • Oleksandr Misiats 	DUPLICATES 2
	title	Invariant Measure for Neutral Stochastic Functional Differential Equations with Non-Lipschitz Coefficients		
	publication_date	2021-11-11 22:59:01+00:00		
	source	SupportedSources.ARXIV		
	journal	None		
	volume			
	doi			
	urls	<ul style="list-style-type: none"> • http://arxiv.org/pdf/2111.06492v1 • http://arxiv.org/abs/2111.06492v1 • http://arxiv.org/pdf/2111.06492v1 	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/03b3e21b23da93d56cdd418efec80ae269cf004d 	
	id	id5940007233893749820		
	abstract	In this work we study the long time behavior of nonlinear stochastic functional-differential equations of neutral type in Hilbert spaces with non-Lipschitz nonlinearities. We establish the existence of invariant measures in the shift spaces for such equations. Our approach is based on Krylov-Bogoliubov theorem on the tightness of the family of measures.		

	doc_1	doc_2	decision	id
cases	authors	• I. Matveeva	• I. Matveeva	DUPLICATES 3
	title	Estimates for Exponential Decay of Solutions to One Class of Nonlinear Systems of Neutral Type with Periodic Coefficients	Estimates for Exponential Decay of Solutions to One Class of Nonlinear Systems of Neutral Type with Periodic Coefficients	
	publication_date	2020-04-01 00:00:00	2020-04-01 00:00:00	
	source	SupportedSources.SEMANTIC_SCHOLAR	SupportedSources.SEMANTIC_SCHOLAR	
	journal	Computational Mathematics and Mathematical Physics	Computational Mathematics and Mathematical Physics	
	volume	60	60	
	doi	10.1134/S0965542520040120	10.1134/S0965542520040120	
	urls	• https://www.semanticscholar.org/paper/f5196e294c53a3fa8cc9d83044217a89e626d4c7	• https://www.semanticscholar.org/paper/504fa5b6449fc4b7d1abd3c803d53b45ae7d73e0	
	id	id-9036329729306203736	id-8720156749857821504	
	abstract	None	None	

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• S. Santra• Tanusri Ghosh• O. Bazighifan	authors <ul style="list-style-type: none">• S. Santra• Tanusri Ghosh• O. Bazighifan	DUPLICATES	4
	title Explicit criteria for the oscillation of second-order differential equations with several sub-linear neutral coefficients	title Explicit criteria for the oscillation of second-order differential equations with several sub-linear neutral coefficients		
	publication_date 2020-11-17 00:00:00	publication_date 2020-11-17 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Advances in Difference Equations	journal Advances in Difference Equations		
	volume 2020	volume 2020		
	doi 10.1186/s13662-020-03101-1	doi 10.1186/s13662-020-03101-1		
	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/f4c3b1af7849265abcd6a3e4cb7ecb215bfb553	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/23d3d8865cae73c04542290ff4a210db12c373a6		
	id id-273468367817359243	id id-9048329676285036236		
	abstract None	abstract None		

	doc_1	doc_2	decision	id
cases	authors • Kevin E. M. Church	authors • Kevin E. M. Church	DUPLICATES	5
	title Eigenvalues and delay differential equations: periodic coefficients, impulses and rigorous numerics	title Eigenvalues and delay differential equations: periodic coefficients, impulses and rigorous numerics		
	publication_date 2020-10-08 00:00:00	publication_date 2020-10-08 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Journal of Dynamics and Differential Equations	journal Journal of Dynamics and Differential Equations		
	volume 33	volume 33		
	doi 10.1007/s10884-020-09900-0	doi 10.1007/s10884-020-09900-0		
	urls • https://www.semanticscholar.org/paper/0d96a6a4c27c2832fd3598600210767a80c88d87	urls • https://www.semanticscholar.org/paper/e0eb7ae9e54dda83845e661f6a1349afa143d03b		
	id id-7514191408996057096	id id4752526222279673031		
	abstract None	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Demidenko, G. • Matveeva, I. • Skvortsova, M. 	authors <ul style="list-style-type: none"> • G. Demidenko • I. Matveeva • M. Skvortsova 	DUPLICATES	6
	title Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms	title Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms		
	publication_date 2019-01-01 00:00:00	publication_date 2019-08-30 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Siberian Mathematical Journal		
	volume	volume 60		
	doi 10.1134/s0037446619050069	doi 10.1134/S0037446619050069		
	urls <ul style="list-style-type: none"> • http://link.springer.com/content/pdf/10.1134/S0037446619050069.pdf • http://link.springer.com/article/10.1134/S0037446619050069/fulltext.html • http://link.springer.com/content/pdf/10.1134/S0037446619050069.pdf • http://dx.doi.org/10.1134/s0037446619050069 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/79d715349b1ba97dcc27c25ba9fe8ef79abc9ff4 		
	id id-6327912662501437166	id id-7765202431179083903		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • G. Demidenko • I. Matveeva • M. Skvortsova 	authors	<ul style="list-style-type: none"> • Gennadii Demidenko • I. I. Matveeva • M. A. Skvortsova
	title	Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms	title	Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms
	publication_date	2019-08-30 00:00:00	publication_date	2019-08-30 00:00:00
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.OPENALEX
	journal	Siberian Mathematical Journal	journal	Siberian Mathematical Journal
	volume	60	volume	60
	doi	10.1134/S0037446619050069	doi	10.1134/s0037446619050069
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/79d715349b1ba97dcc27c25ba9fe8ef79abc9ff4 	urls	<ul style="list-style-type: none"> • https://openalex.org/W2978217756 • https://doi.org/10.1134/s0037446619050069
	id	id-7765202431179083903	id	id1785289245985192477
	abstract	None	abstract	

DUPPLICATES 7

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Zhonghua Bi • Zhibo Cheng • Shaowen Yao 	authors <ul style="list-style-type: none"> • Zhonghua Bi • Zhibo Cheng • Shaowen Yao 	DUPLICATES 8	
	title Periodic solutions for p-Laplacian neutral differential equation with multiple delay and variable coefficients	title Periodic solutions for p-Laplacian neutral differential equation with multiple delay and variable coefficients		
	publication_date 2019-12-01 00:00:00	publication_date 2019-03-13 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Advances in Difference Equations	journal Advances in Difference Equations		
	volume 2019	volume 2019		
	doi 10.1186/S13662-018-1942-Y	doi 10.1186/s13662-018-1942-y		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/1cc4c956e6a594caf4606661c225945534f4d978 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/c38dda6390a3ff5e8d50a481392c7bf330ffe108 		
	id id8233019558542377720	id id-1173387425888025715		
	abstract None	abstract None		

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Zhonghua Bi • Zhibo Cheng • Shaowen Yao 	authors	<ul style="list-style-type: none"> • Zhonghua Bi • Zhibo Cheng • Shaowen Yao
	title	Periodic solutions for p-Laplacian neutral differential equation with multiple delay and variable coefficients	title	Periodic solutions for p-Laplacian neutral differential equation with multiple delay and variable coefficients
	publication_date	2019-12-01 00:00:00	publication_date	2019-03-13 00:00:00
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.INTERNET_ARCHIVE
	journal	Advances in Difference Equations	journal	Springer Nature
	volume	2019	volume	
	doi	10.1186/S13662-018-1942-Y	doi	10.1186/s13662-018-1942-y
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/1cc4c956e6a594caf4606661c225945534f4d978 	urls	<ul style="list-style-type: none"> • https://web.archive.org/web/20190428021824/https://advancesindifferenceequations.springeropen.com/track/pdf/10.1186/s13662-018-1942-y
	id	id8233019558542377720	id	id2774442653456102626
	abstract	None	abstract	In this paper, we first discuss some properties of the neutral operator with multiple delays and variable coefficients $(Ax)(t) := x(t) - n \sum_{i=1}^n c_i(t)x(t-\tau_i)$. Afterwards, by using an extension of Mawhin's continuation theorem, a second order p-Laplacian neutral differential equation is studied. Some new results on the existence of a periodic solution are obtained. Meanwhile, the approaches to estimate a priori bounds of periodic solutions are different from those known in the literature. MSC: 34C25; 34K14 and $c_i(t+T) = c_i(t)$ and τ_i are constants in $[0, T]$ for $i = 1, 2, \dots, n$; $f : [0, T] \rightarrow \mathbb{R}$ is an L^2 -Carathéodory function, i.e., it is measurable in the first variable and continuous in the second variable, and for every $0 < r < s$ there exists $h(r,s) \in L^2([0, T])$ such that $ f(t, x(t), x'(t)) \leq h(r,s)$ for all $x \in [r, s]$ and a.e. $t \in [0, T]$. The study of the properties of the neutral operator $(A_1x)(t) := x(t) - \sum_{i=1}^n c_i(t)x(t-\tau_i)$ began with the paper of Zhang [2]. In 2004, Lu and Ge [14] investigated an extension of A_1 , namely the neutral operator $(A_2x)(t) := x(t) - n \sum_{i=1}^n c_i(t)x(t-\tau_i)$. Afterwards, Du [6] discussed the neutral operator $(A_3x)(t) := x(t)c(t)x(t-\tau_i)$, here $c(t)$ is a T -periodic function. And by using

DUPLICATES 9

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Zhonghua Bi • Zhibo Cheng • Shaowen Yao 	authors	<ul style="list-style-type: none"> • Zhonghua Bi • Zhibo Cheng • Shaowen Yao
	title	Periodic solutions for p-Laplacian neutral differential equation with multiple delay and variable coefficients	title	Periodic solutions for p-Laplacian neutral differential equation with multiple delay and variable coefficients
	publication_date	2019-03-13 00:00:00	publication_date	2019-03-13 00:00:00
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.INTERNET_ARCHIVE
	journal	Advances in Difference Equations	journal	Springer Nature
	volume	2019	volume	
	doi	10.1186/s13662-018-1942-y	doi	10.1186/s13662-018-1942-y
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/c38dda6390a3ff5e8d50a481392c7bf330ffe108 	urls	<ul style="list-style-type: none"> • https://web.archive.org/web/20190428021824/https://advancesindifferenceequations.springeropen.com/track/pdf/10.1186/s13662-018-1942-y
	id	id-117338742588025715	id	id2774442653456102626
	abstract	None	abstract	<p>In this paper, we first discuss some properties of the neutral operator with multiple delays and variable coefficients $(Ax)(t) := x(t) - \sum_{i=1}^n c_i(t)x(t-\tau_i)$. Afterwards, by using an extension of Mawhin's continuation theorem, a second order p-Laplacian neutral differential equation is studied. Some new results on the existence of a periodic solution are obtained. Meanwhile, the approaches to estimate a priori bounds of periodic solutions are different from those known in the literature. MSC: 34C25; 34K14 and $c_i(t+T) = c_i(t)$ and τ_i are constants in $[0, T]$ for $i = 1, 2, \dots, n$; $f: [0, T] \rightarrow \mathbb{R}$ is an L^2-Carathéodory function, i.e., it is measurable in the first variable and continuous in the second variable, and for every $0 < r < s$ there exists $h, r, s \in L^2[0, T]$ such that $f(t, x(t), x'(t)) \leq h(t)$ for all $x \in [r, s]$ and a.e. $t \in [0, T]$. The study of the properties of the neutral operator $(A_1x)(t) := x(t) - \sum_{i=1}^n c_i(t)x(t-\tau_i)$ began with the paper of Zhang [2]. In 2004, Lu and Ge [14] investigated an extension of A_1, namely the neutral operator $(A_2x)(t) := x(t) - \sum_{i=1}^n c_i(t)x(t-\tau_i)$. Afterwards, Du [6] discussed the neutral operator $(A_3x)(t) := x(t)c(t)x(t-\tau_i)$, here $c(t)$ is a T-periodic function. And by using</p>

DUPLICATES 10

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> • Thieu Huy Nguyen • Thi Loan Nguyen • T. N. H. Vu 	authors	<ul style="list-style-type: none"> • Thieu Huy Nguyen • Thi Loan Nguyen • T. N. H. Vu 	DUPLICATES 11
	title	Periodic solutions and their conditional stability for partial neutral functional differential equations	title	Periodic solutions and their conditional stability for partial neutral functional differential equations	
	publication_date	2019-12-01 00:00:00	publication_date	2019-04-30 00:00:00	
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR	
	journal	Journal of Evolution Equations	journal	Journal of Evolution Equations	
	volume		volume	19	
	doi	10.1007/S00028-019-00511-X	doi	10.1007/s00028-019-00511-x	
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/9a131cb2aff0ed0c591547645b01cd05cff0e3e9 	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/4c97b1cf73524f4d41a7d1fce826990f48a990b5 	
	id	id-3335499956812385147	id	id-1631365176963762866	
	abstract	None	abstract	None	

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Jervin Zen Lobo • Y. S. Valaulikar 	authors <ul style="list-style-type: none"> • Jervin Zen Lobo • Y. S. Valaulikar 		
	title Group classification of second order neutral differential equations	title Group classification of second order neutral differential equations		
	publication_date 2019-12-31 09:02:55+00:00	publication_date 2019-12-31 00:00:00		
	source SupportedSources.ARXIV	source SupportedSources.SEMANTIC_SCHOLAR		
	journal None	journal arXiv: Classical Analysis and ODEs		
	volume	volume		
	doi	doi		
	urls <ul style="list-style-type: none"> • http://arxiv.org/pdf/1912.13228v1 • http://arxiv.org/abs/1912.13228v1 • http://arxiv.org/pdf/1912.13228v1 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/18f782190915b6b07190864c69bfb6a95ff6915d 	DUPPLICATES	13
	id id8630896400340256971	id id-7656181386231371745		
	abstract <p>In this paper, we discuss the method of obtaining symmetries for second order nonhomogeneous neutral differential equations with variable coefficients. We use Taylor theorem for a function of several variables to obtain a Lie type invariance condition and the determining equations. Further we make a complete group classification of the second order linear neutral differential equation, for which there is no existing literature. As a special case, we present a complete group classification of the corresponding second order linear delay differential equation.</p>	abstract <p>In this paper, we discuss the method of obtaining symmetries for second order nonhomogeneous neutral differential equations with variable coefficients. We use Taylor theorem for a function of several variables to obtain a Lie type invariance condition and the determining equations. Further we make a complete group classification of the second order linear neutral differential equation, for which there is no existing literature. As a special case, we present a complete group classification of the corresponding second order linear delay differential equation.</p>		

	doc_1	doc_2	decision	id	
cases	authors	• Yuehua Yu • Shuhua Gong	authors	• Yuehua Yu • Shuhua Gong	
	title	Pseudo-almost periodic solutions for first-order neutral differential equations	title	Pseudo-almost periodic solutions for first-order neutral differential equations	
	publication_date	2018-12-01 00:00:00	publication_date	2018-03-27 00:00:00	
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR	
	journal	Advances in Difference Equations	journal	Advances in Difference Equations	
	volume	2018	volume	2018	
	doi	10.1186/S13662-018-1568-0	doi	10.1186/s13662-018-1568-0	
	urls	• https://www.semanticscholar.org/paper/367648f12d887c9dde7a7333c015e0091731f709	urls	• https://www.semanticscholar.org/paper/7177b432d50cb2688c39ab265a3e2a78573e0330	
	id	id-7837313542506238461	id	id-4952773375269822773	
abstract	None	abstract	None	DUPPLICATES 14	

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong 	authors <ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong 		
	title Pseudo-almost periodic solutions for first-order neutral differential equations	title Pseudo-almost periodic solutions for first-order neutral differential equations		
	publication_date 2018-12-01 00:00:00	publication_date 2018-03-27 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal Advances in Difference Equations	journal Springer Nature		
	volume 2018	volume		
	doi 10.1186/S13662-018-1568-0	doi 10.1186/s13662-018-1568-0		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/367648f12d887c9dde7a7333c015e0091731f709 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20190427132656/https://advancesindifferenceequations.springeropen.com/track/pdf/10.1186/s13662-018-1568-0 		
	id id-7837313542506238461	id id80656481244765412		
	abstract None	abstract <p>In this paper, we study a class of first-order neutral differential equations with time-varying delays and coefficients. Employing the fixed point method and differential inequality techniques, easily verifiable delay-independent criteria are established to ensure the existence and global exponential stability of pseudo-almost periodic solutions for the addressed equations. These theoretical results are also supported with numerical simulations. MSC: 34C25; 34K13 Keywords: Pseudo-almost periodic solution; First-order neutral differential equation; Existence; Global exponential stability where $Q, P \in C(R, (0, +\infty))$, $\tilde{I}_1, 1/\tilde{I}_1, 2 \in C(R, [0, +\infty))$ are bounded, and $f \in C(R \times R, R)$. Recently, the existence and stability of periodic solutions or pseudo-almost periodic solutions of (1.2) and its generalized equations have been extensively studied. For example, criteria ensuring the existence of periodic solutions are established in [3-9] and some</p>	DUPLICATES	15

	doc_1	doc_2	decision	id	
cases	authors	• Yuehua Yu • Shuhua Gong	authors	• Yuehua Yu • Shuhua Gong	DUPLICATES 16
	title	New results on positive almost periodic solutions for first-order neutral differential equations	title	New results on positive almost periodic solutions for first-order neutral differential equations <th data-kind="ghost"></th>	
	publication_date	2018-12-01 00:00:00	publication_date	2018-05-21 00:00:00	
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR	
	journal	Advances in Difference Equations	journal	Advances in Difference Equations	
	volume	2018	volume	2018	
	doi	10.1186/S13662-018-1648-1	doi	10.1186/s13662-018-1648-1	
	urls	• https://www.semanticscholar.org/paper/38ea55b042f0679c9e7198eeccb38a06328340f1	urls	• https://www.semanticscholar.org/paper/c9f74c691d90f7c6625fe571357ca7be27e60e8f	
	id	id-4279890873195394542	id	id246927730157236822	
	abstract	None	abstract	None	

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong 	authors <ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong 		
	title New results on positive almost periodic solutions for first-order neutral differential equations	title New results on positive almost periodic solutions for first-order neutral differential equations		
	publication_date 2018-12-01 00:00:00	publication_date 2018-05-21 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal Advances in Difference Equations	journal Springer Nature		
	volume 2018	volume		
	doi 10.1186/S13662-018-1648-1	doi 10.1186/s13662-018-1648-1		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/38ea55b042f0679c9e7198eeccb38a06328340f1 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20190305130711/http://pdfs.semanticscholar.org/c9f7/4c691d90f7c6625fe571357ca7be27e60e8f.pdf 		
	id id-4279890873195394542	id id-6398570401718766900		
	abstract None	abstract In this paper, a class of first-order neutral differential equations with time-varying delays and coefficients is considered. Some results on the existence of positive almost periodic solutions for the equations are obtained by using the contracting mapping principle and the differential inequality technique. In addition, an example is given to illustrate our results. MSC: 34C25; 34K13		DUPPLICATES 17

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong 	authors <ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong 		
	title New results on positive almost periodic solutions for first-order neutral differential equations	title New results on positive almost periodic solutions for first-order neutral differential equations		
	publication_date 2018-05-21 00:00:00	publication_date 2018-05-21 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal Advances in Difference Equations	journal Springer Nature		
	volume 2018	volume		
	doi 10.1186/s13662-018-1648-1	doi 10.1186/s13662-018-1648-1		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/c9f74c691d90f7c6625fe571357ca7be27e60e8f 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20190305130711/http://pdfs.semanticscholar.org/c9f7/4c691d90f7c6625fe571357ca7be27e60e8f.pdf 		
	id id246927730157236822	id id-6398570401718766900		
	abstract None	abstract In this paper, a class of first-order neutral differential equations with time-varying delays and coefficients is considered. Some results on the existence of positive almost periodic solutions for the equations are obtained by using the contracting mapping principle and the differential inequality technique. In addition, an example is given to illustrate our results. MSC: 34C25; 34K13		DUPPLICATES 18

	doc_1	doc_2	decision	id
cases	authors • Yuehua Yu • Shuhua Gong	authors • Yuehua Yu • Shuhua Gong		
	title Pseudo-almost periodic solutions for first-order neutral differential equations	title Pseudo-almost periodic solutions for first-order neutral differential equations		
	publication_date 2018-03-27 00:00:00	publication_date 2018-03-27 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal Advances in Difference Equations	journal Springer Nature		
	volume 2018	volume		
	doi 10.1186/s13662-018-1568-0	doi 10.1186/s13662-018-1568-0		
	urls • https://www.semanticscholar.org/paper/7177b432d50cb2688c39ab265a3e2a78573e0330	urls • https://web.archive.org/web/20190427132656/https://advancesindifferenceequations.springeropen.com/track/pdf/10.1186/s13662-018-1568-0		
	id id-4952773375269822773	id id80656481244765412		
	abstract None	abstract In this paper, we study a class of first-order neutral differential equations with time-varying delays and coefficients. Employing the fixed point method and differential inequality techniques, easily verifiable delay-independent criteria are established to ensure the existence and global exponential stability of pseudo-almost periodic solutions for the addressed equations. These theoretical results are also supported with numerical simulations. MSC: 34C25; 34K13 Keywords: Pseudo-almost periodic solution; First-order neutral differential equation; Existence; Global exponential stability where $Q, P \in C(R, (0, +\infty))$, $\tilde{I}_1, 1, \tilde{I}_2, 2 \in C(R, [0, +\infty))$ are bounded, and $f \in C(R \times R, R)$. Recently, the existence and stability of periodic solutions or pseudo-almost periodic solutions of (1.2) and its generalized equations have been extensively studied. For example, criteria ensuring the existence of periodic solutions are established in [3-9] and some	DUPLICATES	19

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Zhibo Cheng • Feifan Li 	authors	<ul style="list-style-type: none"> • Zhibo Cheng • Feifan Li
	title	Positive Periodic Solutions for a Kind of Second-Order Neutral Differential Equations with Variable Coefficient and Delay	title	Positive Periodic Solutions for a Kind of Second-Order Neutral Differential Equations with Variable Coefficient and Delay
	publication_date	2018-05-31 00:00:00	publication_date	2018-05-31 00:00:00
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR
	journal	Mediterranean Journal of Mathematics	journal	Mediterranean Journal of Mathematics
	volume	15	volume	15
	doi	10.1007/S00009-018-1184-Y	doi	10.1007/s00009-018-1184-y
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/28a39d13ed1199f41de63754ed6a43ad1fcfe998 	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/df68dedebec63b1c5116453174d64b7a39394ee5
	id	id-4286650246627283091	id	id8776496592180086204
	abstract	None	abstract	None
				DUPPLICATES 20

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Zhibo Cheng • FeiFan Li 	authors	<ul style="list-style-type: none"> • Zhibo Cheng • Fei-Fan Li
	title	Positive Periodic Solutions for a Kind of Second-Order Neutral Differential Equations with Variable Coefficient and Delay	title	Positive Periodic Solutions for a Kind of Second-Order Neutral Differential Equations with Variable Coefficient and Delay
	publication_date	2018-05-31 00:00:00	publication_date	2018-05-31 00:00:00
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.OPENALEX
	journal	Mediterranean Journal of Mathematics	journal	Mediterranean Journal of Mathematics
	volume	15	volume	
	doi	10.1007/S00009-018-1184-Y	doi	10.1007/s00009-018-1184-y
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/28a39d13ed1199f41de63754ed6a43ad1fcfe998 	urls	<ul style="list-style-type: none"> • https://openalex.org/W2805556900 • https://doi.org/10.1007/s00009-018-1184-y
	id	id-4286650246627283091	id	id-7887414313465154130
	abstract	None	abstract	

DUPPLICATES 21

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Fangfang Jiang• Jianhua Shen• Zhicheng Ji	authors <ul style="list-style-type: none">• Fangfang Jiang• Jianhua Shen• Zhicheng Ji	DUPLICATES	22
	title Asymptotic behavior of impulsive neutral delay differential equations with positive and negative coefficients of Euler form	title Asymptotic behavior of impulsive neutral delay differential equations with positive and negative coefficients of Euler form		
	publication_date 2018-03-06 00:00:00	publication_date 2018-03-06 00:00:00		
	source SupportedSources(SEMANTIC_SCHOLAR)	source SupportedSources(SEMANTIC_SCHOLAR)		
	journal Advances in Difference Equations	journal Advances in Difference Equations		
	volume 2018	volume 2018		
	doi 10.1186/S13662-018-1503-4	doi 10.1186/s13662-018-1503-4		
	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/0d515ce0b703f424ebbab1d5a03d4d5d54aade16	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/84c0bdf77b3fc8f4e1d86139cf6ee575d5102e86		
	id id7435416675231701617	id id6263297688454608931		
	abstract None	abstract None		

	doc_1	doc_2	decision	id
cases	authors • Zhibo Cheng • FeiFan Li	authors • Zhibo Cheng • Fei-Fan Li		
	title Positive Periodic Solutions for a Kind of Second-Order Neutral Differential Equations with Variable Coefficient and Delay	title Positive Periodic Solutions for a Kind of Second-Order Neutral Differential Equations with Variable Coefficient and Delay		
	publication_date 2018-05-31 00:00:00	publication_date 2018-05-31 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.OPENALEX		
	journal Mediterranean Journal of Mathematics	journal Mediterranean Journal of Mathematics		
	volume 15	volume		
	doi 10.1007/s00009-018-1184-y	doi 10.1007/s00009-018-1184-y		
	urls • https://www.semanticscholar.org/paper/df68dedebec63b1c5116453174d64b7a39394ee5	urls • https://openalex.org/W2805556900 • https://doi.org/10.1007/s00009-018-1184-y		
	id id8776496592180086204	id id-7887414313465154130		
	abstract None	abstract	DUPPLICATES	23

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Guentri Hocine • Ardjouni Abdelouaheb • Djoudi Ahcene 	authors <ul style="list-style-type: none"> • Gabsi Hocine • Ardjouni Abdelouaheb • Djoudi Ahcene 		
	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients		
	publication_date 2018-01-01 00:00:00	publication_date 2018-01-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.INTERNET_ARCHIVE		
	journal Mathematica Moravica	journal Centre for Evaluation in Education and Science (CEON/CEES)		
	volume	volume		
	doi 10.5937/matmor1802069g	doi 10.5937/matmor1802069g		
	urls <ul style="list-style-type: none"> • https://openalex.org/W2905666173 • https://doi.org/10.5937/matmor1802069g • https://scindeks-clanci.ceon.rs/data/pdf/1450-5932/2018/1450-59321802069H.pdf 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20190426073252/https://scindeks-clanci.ceon.rs/data/pdf/1450-5932/2018/1450-59321802069H.pdf 		
	id id-7472807170594844119	id id2085750112568148620		
	abstract	abstract In this paper, we use Krasnoselskii's fixed point theorem to establish the existence of positive periodic solutions of second-order nonlinear neutral differential equations. Our techniques can be used and applied to study other classes of problems and extension some results.	DUPPLICATES	24

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Abdelouahed Ardjouni • Ahcene Djoudi • Hocine Gabsi 	authors <ul style="list-style-type: none"> • Gabsi Hocine • Ardjouni Abdelouahed • Djoudi Ahcene 		
	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients		
	publication_date 2018-01-01 00:00:00	publication_date 2018-01-01 00:00:00		
	source SupportedSources.CORE	source SupportedSources.INTERNET_ARCHIVE		
	journal Mathematica Moravica	journal Centre for Evaluation in Education and Science (CEON/CEES)		
	volume	volume		
	doi None	doi 10.5937/matmor1802069g		
	urls <ul style="list-style-type: none"> • https://core.ac.uk/download/201451407.pdf 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20190426073252/https://scindeks-clanci.ceon.rs/data/pdf/1450-5932/2018/1450-59321802069H.pdf 		
	id id-6304551383133223667	id id2085750112568148620		
	abstract In this paper, we use Krasnoselskii's fixed point theorem to establish the existence of positive periodic solutions of second-order nonlinear neutral differential equations. Our techniques can be used and applied to study other classes of problems and extension some results	abstract In this paper, we use Krasnoselskii's fixed point theorem to establish the existence of positive periodic solutions of second-order nonlinear neutral differential equations. Our techniques can be used and applied to study other classes of problems and extension some results.	DUPPLICATES	25

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Chertovskih, R. • Rasskazov, A. • Zheligovsky, V. 	authors <ul style="list-style-type: none"> • Aaron Chuah • Colleen P. MacMillan • Danny Llewellyn • Elizabeth Brill • Elizabeth S. Dennis • Filomena A. Pettolino • Hannah Birke • John Ralph • Yukiko Tsuji 		
	title Magnetic field generation by pointwise zero-helicity three-dimensional steady flow of incompressible electrically conducting fluid	title Magnetic field generation by pointwise zero-helicity three-dimensional steady flow of incompressible electrically conducting fluid		
	publication_date 2018-01-01 00:00:00	publication_date 2017-07-01 00:00:00		
	source SupportedSources CORE	source SupportedSources CORE		
	journal None	journal None		
	volume	volume		
	doi 10.1103/physreve.97.043201	doi 10.1103/physreve.97.043201		
	urls <ul style="list-style-type: none"> • https://core.ac.uk/download/156948946.pdf 	urls <ul style="list-style-type: none"> • https://core.ac.uk/download/pdf/156948946.pdf 		
	id id-6191608861437108087	id id1268561081003675206		
	abstract <p>We introduce six families of three-dimensional space-periodic steady solenoidal flows, whose kinetic helicity density is zero at any point. Four families are analytically defined. Flows in four families have zero helicity spectrum. Sample flows from five families are used to demonstrate numerically that neither zero kinetic helicity density, nor zero helicity spectrum prohibit generation of large-scale magnetic field by the two most prominent dynamo mechanisms: the magnetic α-effect and negative eddy diffusivity. Our computations also attest that such flows often generate small-scale field for sufficiently small magnetic molecular diffusivity. These findings indicate that kinetic helicity and helicity spectrum are not the quantities controlling the dynamo properties of a flow regardless of whether scale separation is present or not. Comment: 37 pages, 11 figures, 54 reference</p>	abstract <p>We introduce six families of three-dimensional space-periodic steady solenoidal flows, whose kinetic helicity density is zero at any point. Four families are analytically defined. Flows in four families have zero helicity spectrum. Sample flows from five families are used to demonstrate numerically that neither zero kinetic helicity density, nor zero helicity spectrum prohibit generation of large-scale magnetic field by the two most prominent dynamo mechanisms: the magnetic α-effect and negative eddy diffusivity. Our computations also attest that such flows often generate small-scale field for sufficiently small magnetic molecular diffusivity. These findings indicate that kinetic helicity and helicity spectrum are not the quantities controlling the dynamo properties of a flow regardless of whether scale separation is present or not. Comment: 37 pages, 11 figures, 54 reference</p>	DUPPLICATES	26

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• M. Muminov	authors <ul style="list-style-type: none">• M. Muminov		
	title On the method of finding periodic solutions of second-order neutral differential equations with piecewise constant arguments	title On the method of finding periodic solutions of second-order neutral differential equations with piecewise constant arguments		
	publication_date 2017-12-01 00:00:00	publication_date 2017-10-18 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Advances in Difference Equations	journal Advances in Difference Equations		
	volume 2017	volume 2017		
	doi 10.1186/S13662-017-1396-7	doi 10.1186/s13662-017-1396-7		
	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/db1919a43129df5ec868aad58b0bea8309dbe70b	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/e4e789e75af5e7b95549fc809e6cea592505fbde		
	id id-426318207774883991	id id2653378672462352466		
	abstract None	abstract None		

DUPLICATES 27

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> Fazia Bedouhene Nouredine Challali Omar Mellah Paul Raynaud de Fitte Mannal Smaali 	authors	<ul style="list-style-type: none"> F. Bedouhene Nouredine Challali Omar Mellah P. R. D. Fitte M. Smaali 	
	title	Almost periodic solution in distribution for stochastic differential equations with Stepanov almost periodic coefficients	title	Almost periodic solution in distribution for stochastic differential equations with Stepanov almost periodic coefficients	DUPPLICATES 28
	publication_date	2017-03-01 13:14:17+00:00	publication_date	2017-03-01 00:00:00	
	source	SupportedSources.ARXIV	source	SupportedSources.SEMANTIC_SCHOLAR	
	journal	None	journal	arXiv: Probability	
	volume		volume		
	doi		doi		
	urls	<ul style="list-style-type: none"> http://arxiv.org/pdf/1703.00282v3 http://arxiv.org/abs/1703.00282v3 http://arxiv.org/pdf/1703.00282v3 	urls	<ul style="list-style-type: none"> https://www.semanticscholar.org/paper/bc2cb9dee2a5189bc8a5d8f6ea096b03e2083cc3 	
	id	id-8026509612505451757	id	id-7181293776587355464	
	abstract	This paper deals with the existence and uniqueness of (\$\mu\$-pseudo) almost periodic mild solution to some evolution equations with Stepanov (\$\mu\$-pseudo) almost periodic coefficients, in both determinist and stochastic cases. After revisiting some known concepts and properties of Stepanov (\$\mu\$-pseudo) almost periodicity in complete metric space, we consider a semilinear stochastic evolution equation on a Hilbert separable space with Stepanov (\$\mu\$-pseudo) almost periodic coefficients. We show existence and uniqueness of the mild solution which is (\$\mu\$-pseudo) almost periodic in 2-distribution. We also generalize a result by Andres and Pennequin, according to which there is no purely Stepanov almost periodic solutions to differential equations with Stepanov almost periodic coefficients.	abstract	This paper deals with the existence and uniqueness of (\$\mu\$-pseudo) almost periodic mild solution to some evolution equations with Stepanov (\$\mu\$-pseudo) almost periodic coefficients, in both determinist and stochastic cases. After revisiting some known concepts and properties of Stepanov (\$\mu\$-pseudo) almost periodicity in complete metric space, we consider a semilinear stochastic evolution equation on a Hilbert separable space with Stepanov (\$\mu\$-pseudo) almost periodic coefficients. We show existence and uniqueness of the mild solution which is (\$\mu\$-pseudo) almost periodic in 2-distribution. We also generalize a result by Andres and Pennequin, according to which there is no purely Stepanov almost periodic solutions to differential equations with Stepanov almost periodic coefficients.	

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Candan, T.	authors <ul style="list-style-type: none">• T. Candan	DUPLICATES	29
	title Existence of positive periodic solutions of first order neutral differential equations with variable coefficients	title Existence of positive periodic solutions of first order neutral differential equations with variable coefficients		
	publication_date 2016-01-01 00:00:00	publication_date 2016-02-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Appl. Math. Lett.		
	volume	volume 52		
	doi 10.1016/j.aml.2015.08.014	doi 10.1016/j.aml.2015.08.014		
	urls <ul style="list-style-type: none">• https://api.elsevier.com/content/article/PII:S0893965915002529?httpAccept=text/xml• https://api.elsevier.com/content/article/PII:S0893965915002529?httpAccept=text/plain• http://dx.doi.org/10.1016/j.aml.2015.08.014	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/91ea5d0f93acee4860683af050f70edd31765be7		
	id id-5118805091479732282	id id-784252599263795902		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Demidenko, G.	authors <ul style="list-style-type: none">• G. Demidenko		
	title On conditions for exponential dichotomy of systems of linear differential equations with periodic coefficients	title On conditions for exponential dichotomy of systems of linear differential equations with periodic coefficients		
	publication_date 2016-01-01 00:00:00	publication_date 2016-02-08 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal International Journal of Dynamical Systems and Differential Equations		
	volume	volume		
	doi 10.1504/ijdsde.2016.074581	doi 10.1504/ijdsde.2016.074581		
	urls <ul style="list-style-type: none">• http://dx.doi.org/10.1504/ijdsde.2016.074581	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/80d4e6799004187b55bd9f971e9be60d2ad25592		
	id id-5296258364249465041	id id-2484564555676622150		
	abstract	abstract We establish new conditions for exponential dichotomy of systems of linear differential equations with periodic coefficients. The conditions are formulated in terms of solvability of a special boundary value problem for the Lyapunov differential equation. Estimates for the dichotomy parameters are obtained.		

DUPLICATES 30

	doc_1	doc_2	decision	id
cases	authors • T. Candan	authors • Tuncay Candan	DUPLICATES	31
	title Existence of positive periodic solutions of first order neutral differential equations with variable coefficients	title Existence of positive periodic solutions of first order neutral differential equations with variable coefficients		
	publication_date 2016-02-01 00:00:00	publication_date 2016-02-01 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.OPENALEX		
	journal Appl. Math. Lett.	journal Applied Mathematics Letters		
	volume 52	volume 52		
	doi 10.1016/j.aml.2015.08.014	doi 10.1016/j.aml.2015.08.014		
	urls • https://www.semanticscholar.org/paper/91ea5d0f93acee4860683af050f70edd31765be7	urls • https://openalex.org/W1633700623 • https://doi.org/10.1016/j.aml.2015.08.014 • https://doi.org/10.1016/j.aml.2015.08.014		
	id id-784252599263795902	id id-5496450930681203834		
	abstract None	abstract None		

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • C. Jiang • Ying Jiang • Tongxing Li 	authors	<ul style="list-style-type: none"> • C. Jiang • Ying Jiang • Tongxing Li
	title	Asymptotic behavior of third-order differential equations with nonpositive neutral coefficients and distributed deviating arguments	title	Asymptotic behavior of third-order differential equations with nonpositive neutral coefficients and distributed deviating arguments
	publication_date	2016-04-12 00:00:00	publication_date	2016-04-12 00:00:00
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR
	journal	Advances in Difference Equations	journal	Advances in Difference Equations
	volume	2016	volume	2016
	doi	10.1186/S13662-016-0833-3	doi	10.1186/s13662-016-0833-3
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/152d1a1e225bdfe6ac3bc3b7a0f931314c15b95a 	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/01c185aac5ac8afe4f58ce5efaf7c5b80184a15d
	id	id-9212504736882795437	id	id6157615919619109278
	abstract	None	abstract	None

DUPLICATES 32

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Demidenko, G.• Matveeva, I.	authors <ul style="list-style-type: none">• Demidenko, Gennadii• Matveeva, Inessa		
	title Estimates for solutions to a class of time-delay systems of neutral type with periodic coefficients and several delays	title Estimates for solutions to a class of time-delay systems of neutral type with periodic coefficients and several delays		
	publication_date 2015-01-01 00:00:00	publication_date 2015-01-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.CORE		
	journal	journal Electronic journal of qualitative theory of differential equations		
	volume	volume		
	doi 10.14232/ejqtde.2015.1.83	doi 10.14232/ejqtde.2015.1.83		
	urls <ul style="list-style-type: none">• http://www.math.u-szeged.hu/ejqtde/p4183.pdf• http://dx.doi.org/10.14232/ejqtde.2015.1.83	urls <ul style="list-style-type: none">• https://core.ac.uk/download/42941987.pdf		
	id id4575802402874162827	id id568820423922041800		
	abstract	abstract We consider a class of nonlinear time-delay systems of neutral type with periodic coefficients in linear terms and several delays. We establish conditions under which the zero solution is exponentially stable and obtain estimates characterizing exponential decay of solutions at infinity. The conditions are formulated in terms of differential matrix inequalities. All the values characterizing the decay rate are written out in explicit form	DUPPLICATES	33

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• P. Hasil• M. Veselá	authors <ul style="list-style-type: none">• P. Hasil• M. Veselá	DUPLICATES	34
	title Non-oscillation of perturbed half-linear differential equations with sums of periodic coefficients	title Non-oscillation of perturbed half-linear differential equations with sums of periodic coefficients		
	publication_date 2015-06-20 00:00:00	publication_date 2015-06-20 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Advances in Difference Equations	journal Advances in Difference Equations		
	volume 2015	volume 2015		
	doi 10.1186/S13662-015-0533-4	doi 10.1186/s13662-015-0533-4		
	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/0b2aae3312e9c5b3dd726fdb0716fe30cde6cb57• https://www.semanticscholar.org/paper/c827be1231659856bae842460bb299993d8550e4	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/c827be1231659856bae842460bb299993d8550e4		
	id id-3075716366133698351	id id8253693762633117737		
	abstract None	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Demidenko, Gennadii• Matveeva, Inessa	authors <ul style="list-style-type: none">• Gennadii Demidenko• Inessa Matveeva		
	title Estimates for solutions to a class of time-delay systems of neutral type with periodic coefficients and several delays	title Estimates for solutions to a class of time-delay systems of neutral type with periodic coefficients and several delays		
	publication_date 2015-01-01 00:00:00	publication_date 2015-01-01 00:00:00		
	source SupportedSources.CORE	source SupportedSources.INTERNET_ARCHIVE		
	journal Electronic journal of qualitative theory of differential equations	journal University of Szeged		
	volume	volume		
	doi 10.14232/ejqtde.2015.1.83	doi 10.14232/ejqtde.2015.1.83		
	urls <ul style="list-style-type: none">• https://core.ac.uk/download/42941987.pdf	urls <ul style="list-style-type: none">• https://web.archive.org/web/20180722142631/http://real.mtak.hu/32241/1/p4183.pdf		
	id id568820423922041800	id id521611528284903321		
	abstract We consider a class of nonlinear time-delay systems of neutral type with periodic coefficients in linear terms and several delays. We establish conditions under which the zero solution is exponentially stable and obtain estimates characterizing exponential decay of solutions at infinity. The conditions are formulated in terms of differential matrix inequalities. All the values characterizing the decay rate are written out in explicit form	abstract We consider a class of nonlinear time-delay systems of neutral type with periodic coefficients in linear terms and several delays. We establish conditions under which the zero solution is exponentially stable and obtain estimates characterizing exponential decay of solutions at infinity. The conditions are formulated in terms of differential matrix inequalities. All the values characterizing the decay rate are written out in explicit form.	DUPPLICATES	35

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Demidenko, G.• Matveeva, I.	authors <ul style="list-style-type: none">• G. Demidenko• I. Matveeva		
	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients		
	publication_date 2014-01-01 00:00:00	publication_date 2014-10-23 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Siberian Mathematical Journal		
	volume	volume 55		
	doi 10.1134/s0037446614050061	doi 10.1134/S0037446614050061		
	urls <ul style="list-style-type: none">• http://link.springer.com/content/pdf/10.1134/S0037446614050061.pdf• http://link.springer.com/article/10.1134/S0037446614050061/fulltext.html• http://link.springer.com/content/pdf/10.1134/S0037446614050061• http://dx.doi.org/10.1134/s0037446614050061	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/1f2b9d499cb05a78970e48fbca74af962bd145b4	DUPPLICATES	36
	id id3709091888181445725	id id-5116711191017611691		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Demidenko, G.• Matveeva, I.	authors <ul style="list-style-type: none">• G. Demidenko• I. Matveeva		
	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients		
	publication_date 2014-01-01 00:00:00	publication_date 2014-09-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Siberian Mathematical Journal		
	volume	volume 55		
	doi 10.1134/s0037446614050061	doi 10.1134/S0037446614050061		
	urls <ul style="list-style-type: none">• http://link.springer.com/content/pdf/10.1134/S0037446614050061.pdf• http://link.springer.com/article/10.1134/S0037446614050061/fulltext.html• http://link.springer.com/content/pdf/10.1134/S0037446614050061• http://dx.doi.org/10.1134/s0037446614050061	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/e82d2aee71237bd8b64fe7095195d702ea94bbe4	DUPPLICATES	37
	id id3709091888181445725	id id-5513292848026934932		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• G. Demidenko• I. Matveeva	authors <ul style="list-style-type: none">• G. Demidenko• I. Matveeva	DUPLICATES	38
	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients		
	publication_date 2014-10-23 00:00:00	publication_date 2014-09-01 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Siberian Mathematical Journal	journal Siberian Mathematical Journal		
	volume 55	volume 55		
	doi 10.1134/S0037446614050061	doi 10.1134/S0037446614050061		
	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/1f2b9d499cb05a78970e48fbca74af962bd145b4• https://www.semanticscholar.org/paper/e82d2aee71237bd8b64fe7095195d702ea94bbe4	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/e82d2aee71237bd8b64fe7095195d702ea94bbe4		
	id id-5116711191017611691	id id-5513292848026934932		
	abstract None	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • G. Demidenko • I. Matveeva 	authors <ul style="list-style-type: none"> • Gennadii Demidenko • I. I. Matveeva 		
	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients		
	publication_date 2014-10-23 00:00:00	publication_date 2014-10-23 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.OPENALEX		
	journal Siberian Mathematical Journal	journal Siberian Mathematical Journal		
	volume 55	volume 55		
	doi 10.1134/S0037446614050061	doi 10.1134/s0037446614050061		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/1f2b9d499cb05a78970e48fbca74af962bd145b4 	urls <ul style="list-style-type: none"> • https://openalex.org/W2030379208 • https://doi.org/10.1134/s0037446614050061 	DUPPLICATES	39
	id id-5116711191017611691	id id6984520711202546877		
	abstract None	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• G. Demidenko• I. Matveeva	authors <ul style="list-style-type: none">• Gennadii Demidenko• I. I. Matveeva		
	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients		
	publication_date 2014-09-01 00:00:00	publication_date 2014-10-23 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.OPENALEX		
	journal Siberian Mathematical Journal	journal Siberian Mathematical Journal		
	volume 55	volume 55		
	doi 10.1134/S0037446614050061	doi 10.1134/s0037446614050061		
	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/e82d2aee71237bd8b64fe7095195d702ea94bbe4	urls <ul style="list-style-type: none">• https://openalex.org/W2030379208• https://doi.org/10.1134/s0037446614050061	DUPPLICATES	40
	id id-5513292848026934932	id id6984520711202546877		
	abstract None	abstract		

	doc_1	doc_2	decision	id
cases	authors	• G. Demidenko		
	title	Systems of differential equations with periodic coefficients		
	publication_date	2014-03-06 00:00:00		
	source	SupportedSources.SEMANTIC_SCHOLAR		
	journal	Journal of Applied and Industrial Mathematics		
	volume	8		
	doi	10.1134/S1990478914010037		
	urls	• https://www.semanticscholar.org/paper/faba1d2cc1793f330930d50df746879c29b00651		
	id	id170576371751227000		
	abstract	None		
				DUPPLICATES 41

	doc_1	doc_2	decision	id
cases	authors	• Yu. D. Kozlov	authors	• Yu. D. Kozlov
	title	On the dichotomy of a system of linear differential equations with conditionally periodic coefficients	title	On the dichotomy of a system of linear differential equations with conditionally periodic coefficients
	publication_date	2013-05-23 00:00:00	publication_date	2013-03-01 00:00:00
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR
	journal	Differential Equations	journal	Differential Equations
	volume	49	volume	49
	doi	10.1134/S0012266113030026	doi	10.1134/S0012266113030026
	urls	• https://www.semanticscholar.org/paper/05eef2e02d30c7ebfd17ac6c26ccbb9a3d44ebc3	urls	• https://www.semanticscholar.org/paper/1bd3edd047dc0f93c4a48ff3dbe0462dca8ef0a4
	id	id-7144005866141307830	id	id2376474888389683221
	abstract	None	abstract	None

DUPLICATES 42

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Miguel V. S. Frasson • Patricia H. Tacuri 	authors <ul style="list-style-type: none"> • Miguel V. S. Frasson • Patricia H. Tacuri 		
	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients		
	publication_date 2013-12-01 00:00:00	publication_date 2013-01-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.INTERNET_ARCHIVE		
	journal Communications on Pure and Applied Analysis	journal American Institute of Mathematical Sciences (AIMS)		
	volume	volume		
	doi 10.3934/cpaa.2014.13.1105	doi 10.3934/cpaa.2014.13.1105		
	urls <ul style="list-style-type: none"> • https://openalex.org/W2141260452 • https://doi.org/10.3934/cpaa.2014.13.1105 • https://doi.org/10.3934/cpaa.2014.13.1105 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170810103809/http://conteudo.icmc.usp.br/pessoas/frasson/artigos/edf-period.pdf 		
	id id-321999224060486681	id id-5134692271522829436		
	abstract	abstract We study the asymptotic behaviour of the solutions of a class of linear neutral delay differential equations (NDDE) with discrete delay where the coefficients of the non neutral part are periodic functions which are rational multiples of all time delays. We show that this technique is applicable to a broader class where the coefficients of the neutral part are periodic functions as well.	DUPPLICATES	43

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • M. Frasson • P. H. Tacuri 	authors <ul style="list-style-type: none"> • Miguel V. S. Frasson • Patricia H. Tacuri 		
	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients		
	publication_date 2013-12-01 00:00:00	publication_date 2013-01-01 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal Communications on Pure and Applied Analysis	journal American Institute of Mathematical Sciences (AIMS)		
	volume 13	volume		
	doi 10.3934/CPAA.2014.13.1105	doi 10.3934/cpaa.2014.13.1105		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/2469e5d9cd62b442759476fdcf89b8b10be4c9f5 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170810103809/http://conteudo.icmc.usp.br/pessoas/frasson/artigos/edf-period.pdf 		
	id id-8873316217547168539	id id-5134692271522829436		
	abstract <p>We study the asymptotic behaviour of the solutions of a class of linear neutral delay differential equations with discrete delay where the coefficients of the non neutral part are periodic functions which are rational multiples of all time delays. We show that this technique is applicable to a broader class where the coefficients of the neutral part are periodic functions as well.</p>	abstract <p>We study the asymptotic behaviour of the solutions of a class of linear neutral delay differential equations (NDDE) with discrete delay where the coefficients of the non neutral part are periodic functions which are rational multiples of all time delays. We show that this technique is applicable to a broader class where the coefficients of the neutral part are periodic functions as well.</p>	DUPPLICATES	44

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Baskakov, A. • Kobychev, K. 	authors	<ul style="list-style-type: none"> • A. Baskakov • K. S. Kobychev
	title	Estimates for the embedding operator of a sobolev space of periodic functions and for the solutions of differential equations with periodic coefficients	title	Estimates for the embedding operator of a sobolev space of periodic functions and for the solutions of differential equations with periodic coefficients
	publication_date	2011-01-01 00:00:00	publication_date	2011-06-16 00:00:00
	source	SupportedSources.CROSSREF	source	SupportedSources.SEMANTIC_SCHOLAR
	journal		journal	Differential Equations
	volume		volume	47
	doi	10.1134/s0012266111050016	doi	10.1134/S0012266111050016
	urls	<ul style="list-style-type: none"> • http://link.springer.com/content/pdf/10.1134/S0012266111050016.pdf • http://link.springer.com/article/10.1134/S0012266111050016/fulltext.html • http://link.springer.com/content/pdf/10.1134/S0012266111050016 • http://dx.doi.org/10.1134/s0012266111050016 	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/22ab97db37c74a89a46be4be5370282214ac9d4e
	id	id1397753646915952562	id	id-8706699407157360623
	abstract		abstract	None

DUPLICATES 45

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Antonevich, A.• Lo, S.	authors <ul style="list-style-type: none">• A. Antonevich• S. A. Lo		
	title Semi-Fredholm problems on periodic solutions of functional-differential equations of neutral type	title Semi-Fredholm problems on periodic solutions of functional-differential equations of neutral type		
	publication_date 2011-01-01 00:00:00	publication_date 2011-12-29 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Differential Equations		
	volume	volume 47		
	doi 10.1134/s0012266111100016	doi 10.1134/S0012266111100016		
	urls <ul style="list-style-type: none">• http://link.springer.com/content/pdf/10.1134/S0012266111100016.pdf• http://link.springer.com/article/10.1134/S0012266111100016/fulltext.html• http://link.springer.com/content/pdf/10.1134/S0012266111100016• http://dx.doi.org/10.1134/s0012266111100016	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/fc0eaa92bf232751e658d2bc46d10a61cf7dcf3	DUPPLICATES	46
	id id-436689146952257311	id id-6910357448051255275		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Chow S. N. • Jan Sieber • Robert Szalai 	authors <ul style="list-style-type: none"> • Jan Sieber • Robert Szalai 		
	title Characteristic matrices for linear periodic delay differential equations	title Characteristic matrices for linear periodic delay differential equations		
	publication_date 2011-01-01 00:00:00	publication_date 2010-05-25 09:54:32+00:00		
	source SupportedSources.CORE	source SupportedSources.ARXIV		
	journal None	journal SIAM Jornal of Appl. Dyn. Sys. 10, pp. 129-147, 2011		
	volume	volume		
	doi 10.1137/100796455	doi 10.1137/100796455		
	urls <ul style="list-style-type: none"> • https://core.ac.uk/download/29578439.pdf 	urls <ul style="list-style-type: none"> • http://arxiv.org/pdf/1005.4522v3 • http://dx.doi.org/10.1137/100796455 • http://arxiv.org/abs/1005.4522v3 • http://arxiv.org/pdf/1005.4522v3 		DUPPLICATES 47
	id id4802389808756218263	id id6388705744091541789		
	abstract <p>Szalai et al. (SIAM J. on Sci. Comp. 28(4), 2006) gave a general construction for characteristic matrices for systems of linear delay-differential equations with periodic coefficients. First, we show that matrices constructed in this way can have a discrete set of poles in the complex plane, which may possibly obstruct their use when determining the stability of the linear system. Then we modify and generalize the original construction such that the poles get pushed into a small neighborhood of the origin of the complex plane. Comment: 17 pages, 1 figur</p>	abstract <p>Szalai et al. (SIAM J. on Sci. Comp. 28(4), 2006) gave a general construction for characteristic matrices for systems of linear delay-differential equations with periodic coefficients. First, we show that matrices constructed in this way can have a discrete set of poles in the complex plane, which may possibly obstruct their use when determining the stability of the linear system. Then we modify and generalize the original construction such that the poles get pushed into a small neighborhood of the origin of the complex plane.</p>		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • M Weedermann 	authors <ul style="list-style-type: none"> • M. Weedermann 		
	title Hopf bifurcation calculations for scalar neutral delay differential equations	title Hopf bifurcation calculations for scalar neutral delay differential equations		
	publication_date 2006-09-01 00:00:00	publication_date 2006-09-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Nonlinearity	journal Nonlinearity		
	volume 19	volume 19		
	doi 10.1088/0951-7715/19/9/005	doi 10.1088/0951-7715/19/9/005		
	urls <ul style="list-style-type: none"> • https://openalex.org/W1985957601 • https://doi.org/10.1088/0951-7715/19/9/005 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/2f7c7feb5723825570e2a3550b6d8300654939d6 		
	id id253918150052874515	id id2937665357916603238		
	abstract	abstract <p>Hopf bifurcations in scalar neutral delay-differential equations are analysed for $a < 1$. We have derived explicit conditions for a Hopf bifurcation to occur. Using centre manifold reduction and normal form theory the stability coefficient of the periodic orbit on the centre manifold is determined explicitly in terms of the coefficients in the original equation. The results are illustrated in two standard examples, one with a Wright-type nonlinearity and one with a cubic nonlinearity.</p>	DUPPLICATES	48

	doc_1	doc_2	decision	id
cases	authors • Srzednicki, R.	authors • R. Srzednicki		
	title On Periodic Solutions of Planar Polynomial Differential Equations with Periodic Coefficients	title On Periodic Solutions of Planar Polynomial Differential Equations with Periodic Coefficients		
	publication_date 1994-01-01 00:00:00	publication_date 1994-11-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Journal of Differential Equations		
	volume	volume 114		
	doi 10.1006/jdeq.1994.1141	doi 10.1006/JDEQ.1994.1141		
	urls <ul style="list-style-type: none"> • https://api.elsevier.com/content/article/PII:S0022039684711417?httpAccept=text/xml • https://api.elsevier.com/content/article/PII:S0022039684711417?httpAccept=text/plain • http://dx.doi.org/10.1006/jdeq.1994.1141 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/a4a021e1a19e59675a356ce7b7bed8c90baaf709 	DUPPLICATES	49
	id id-8584579333791898389	id id6471081221143232203		
	abstract	abstract Abstract We consider the planar equation $z' = \sum_{k=0}^n a_k(t) z^k + l(t)$, where a_k, l is a T -periodic complex-valued continuous function, equal to 0 for almost all $k, l \in \mathbb{N}$. We present sufficient conditions imposed on a_k, l which guarantee the existence of its T -periodic solutions and, in the case $a_0, l = 0$, the conditions for the existence of nonzero ones. We use a method which computes the fixed point index of the Poincaré-Andronov operator in isolated sets of fixed points generated by so-called periodic blocks. The method is based on the Lefschetz fixed point theorem and the topological principle Of Wazewski.		

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Qing Huang • Shao Rui Chen 	authors	<ul style="list-style-type: none"> • Qing Huang • S. Chen
	title	Oscillation of neutral differential equations with periodic coefficients	title	Oscillation of neutral differential equations with periodic coefficients
	publication_date	1990-04-01 00:00:00	publication_date	1990-04-01 00:00:00
	source	SupportedSources.OPENALEX	source	SupportedSources.SEMANTIC_SCHOLAR
	journal	Proceedings of the American Mathematical Society	journal	
	volume	110	volume	110
	doi	10.1090/s0002-9939-1990-1075188-6	doi	10.1090/S0002-9939-1990-1075188-6
	urls	<ul style="list-style-type: none"> • https://openalex.org/W1996322423 • https://doi.org/10.1090/s0002-9939-1990-1075188-6 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/c8419b6fc95fc4cbd96b62fd720d9b037fc573b3
	id	id7288436618115398865	id	id-8356078989371677773
	abstract		abstract	We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation $n [x(t) p(x(t)) + L q_i(t)x(t)] = 0$, $i=1, \dots, n$ where $0 < 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous τ -periodic functions.

DUPLICATES 50

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Qing Huang • Shao Rui Chen 	authors <ul style="list-style-type: none"> • Qing Guang Huang • Shao Zhu Chen 		
	title Oscillation of neutral differential equations with periodic coefficients	title Oscillation of neutral differential equations with periodic coefficients		
	publication_date 1990-04-01 00:00:00	publication_date 1990-04-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.INTERNET_ARCHIVE		
	journal Proceedings of the American Mathematical Society	journal American Mathematical Society (AMS)		
	volume 110	volume		
	doi 10.1090/s0002-9939-1990-1075188-6	doi 10.1090/s0002-9939-1990-1075188-6		
	urls <ul style="list-style-type: none"> • https://openalex.org/W1996322423 • https://doi.org/10.1090/s0002-9939-1990-1075188-6 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	DUPPLICATES	51
	id id7288436618115398865	id id8276101076510162791		
	abstract	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Qingguang Huang • Shaozhu Chen 	authors <ul style="list-style-type: none"> • Qingguang Huang • Shaozhu Chen 		
	title Oscillation of Neutral Differential Equations with Periodic Coefficients	title Oscillation of Neutral Differential Equations with Periodic Coefficients		
	publication_date 1990-12-01 00:00:00	publication_date 1990-01-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.INTERNET_ARCHIVE		
	journal Proceedings of the American Mathematical Society	journal JSTOR		
	volume 110	volume		
	doi 10.2307/2047748	doi 10.2307/2047748		
	urls <ul style="list-style-type: none"> • https://openalex.org/W4241567090 • https://doi.org/10.2307/2047748 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	DUPPLICATES	52
	id id7336688672901455324	id id7323005350579396027		
	abstract	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Qing Huang • S. Chen 	authors <ul style="list-style-type: none"> • Qingguang Huang • Shaozhu Chen 		
	title Oscillation of neutral differential equations with periodic coefficients	title Oscillation of Neutral Differential Equations with Periodic Coefficients		
	publication_date 1990-04-01 00:00:00	publication_date 1990-01-01 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal	journal JSTOR		
	volume 110	volume		
	doi 10.1090/S0002-9939-1990-1075188-6	doi 10.2307/2047748		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/c8419b6fc95fc4cbd96b62fd720d9b037fc573b3 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 		
	id id-8356078989371677773	id id7323005350579396027		
	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation $n [x(t) p(x)(t r)] + L q_i(t)x(t ir) = 0$, $i=1, \dots, n$, where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	DUPPLICATES	53

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Qing Huang • S. Chen 	authors <ul style="list-style-type: none"> • Qing Guang Huang • Shao Zhu Chen 		
	title Oscillation of neutral differential equations with periodic coefficients	title Oscillation of neutral differential equations with periodic coefficients		
	publication_date 1990-04-01 00:00:00	publication_date 1990-04-01 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal	journal American Mathematical Society (AMS)		
	volume 110	volume		
	doi 10.1090/S0002-9939-1990-1075188-6	doi 10.1090/s0002-9939-1990-1075188-6		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/c8419b6fc95fc4cbd96b62fd720d9b037fc573b3 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	DUPPLICATES	54
	id id-8356078989371677773	id id8276101076510162791		
	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation $n [x(t) p(x)(t r)] + L q_i(t)x(t ir) = 0$, $i=1, \dots, n$, where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Qingguang Huang• Shaozhu Chen	authors <ul style="list-style-type: none">• Qing Guang Huang• Shao Zhu Chen		
	title Oscillation of Neutral Differential Equations with Periodic Coefficients	title Oscillation of neutral differential equations with periodic coefficients		
	publication_date 1990-01-01 00:00:00	publication_date 1990-04-01 00:00:00		
	source SupportedSources.INTERNET_ARCHIVE	source SupportedSources.INTERNET_ARCHIVE		
	journal JSTOR	journal American Mathematical Society (AMS)		
	volume	volume		
	doi 10.2307/2047748	doi 10.1090/s0002-9939-1990-1075188-6		
	urls <ul style="list-style-type: none">• https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf	urls <ul style="list-style-type: none">• https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf		
	id id7323005350579396027	id id8276101076510162791		
	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	DUPPLICATES	55

	doc_1	doc_2	decision	id
cases	authors	• J. Reece Roth		
	title	Periodic Small-Amplitude Solutions to Volterra's Problem of Two Conflicting Populations and Their Application to the Plasma Continuity Equations		
	publication_date	1969-08-01 00:00:00		
	source	SupportedSources.OPENALEX		
	journal	Journal of Mathematical Physics		
	volume			
	doi	10.1063/1.1664982		
	urls	• https://openalex.org/W2097805495 • https://doi.org/10.1063/1.1664982		
	id	id8573809544402973988		
	abstract			
	authors	• J. R. Roth		
	title	PERIODIC SMALL-AMPLITUDE SOLUTIONS TO VOLTERRA'S PROBLEM OF TWO CONFLICTING POPULATIONS AND THEIR APPLICATION TO THE PLASMA CONTINUITY EQUATIONS.		
	publication_date	1969-08-01 00:00:00		
	source	SupportedSources.SEMANTIC_SCHOLAR		
	journal	Journal of Mathematical Physics		
	volume	10		
	doi	10.1063/1.1664982		
	urls	• https://www.semanticscholar.org/paper/c79ac28630ae95d59f82e1277432ed828a56ec88		
	id	id5449388516188214976		
	abstract	The coupled set of first-order nonlinear differential equations describing a generalized form of Volterra's problem of two conflicting populations $\dot{x} = C_0 + C_1x + C_2y + C_3xy + C_4x^2 + C_5y^2, \dot{y} = A_0 + A_1x + A_2y + A_3xy + A_4x^2 + A_5y^2$ are solved by an approximate method which gives $y(t)$ for the particular case in which the variables x and y vary periodically, the coefficients C_i and A_i are real, and the peak-to-peak amplitude of x is small compared with the mean value of x . The peak-to-peak amplitude of y , however, is not necessarily small compared with the mean value of y . When these conditions are satisfied, the functional form of $y(t)$ is approximated by Jacobian elliptic functions. The solutions obtained in this analysis are relevant to special cases of the classical problem of predator and prey, and also to certain low-frequency oscillations in partially ionized plasmas that arise from periodic solutions to the neutral and charged-particle continuity equations.	DUPPLICATES	56

	doc_1	doc_2	decision	id
cases	authors • Meadows, H.	authors • H. Meadows		
	title Solution of Systems of Linear Ordinary Differential Equations with Periodic Coefficients	title Solution of systems of linear ordinary differential equations with periodic coefficients		
	publication_date 1962-01-01 00:00:00	publication_date 1962-07-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal 	journal Bell System Technical Journal		
	volume 	volume 41		
	doi 10.1002/j.1538-7305.1962.tb03278.x	doi 10.1002/J.1538-7305.1962.TB03278.X		
	urls • http://dx.doi.org/10.1002/j.1538-7305.1962.tb03278.x	urls • https://www.semanticscholar.org/paper/64ac7f2929940324df119b43dbea6abe6bd1e15b		
	id id-8043986670565142858	id id-3677381061433678681		
	abstract 	abstract An analysis technique is presented to provide an essentially explicit solution for a system of n simultaneous first-order linear differential equations with periodic coefficients. This representation of a periodic variable-parameter linear system of arbitrary finite order is chosen for its theoretical and practical advantages over the classical nth order linear differential equation. Emphasis is placed on natural mode solutions of a homogeneous set of equations. The characteristic exponents for these solutions are determined from a polynomial equation the coefficients of which are linear combinations of n – 1 convergent infinite-order determinants. Approximate calculation of these determinants is feasible for problems of moderate order.	DUPPLICATES	57

	doc_1	doc_2	decision	id
cases	authors	• Fischer, A.	authors	• A. Fischer
	title	Almost periodic solutions with a prescribed spectrum of linear and quasilinear differential equations with almost periodic coefficients and constant time lag (Neutral differential equations)	title	Almost periodic solutions with a prescribed spectrum of linear and quasilinear differential equations with almost periodic coefficients and constant time lag (Neutral differential equations)
	publication_date	None	publication_date	None
	source	SupportedSources.UNPAYWALL	source	SupportedSources.SEMANTIC_SCHOLAR
	journal	Mathematica Bohemica	journal	
	volume		volume	137
	doi	10.21136/mb.2012.142896	doi	10.21136/mb.2012.142896
	urls	• https://doi.org/10.21136/mb.2012.142896	urls	• https://www.semanticscholar.org/paper/179f0b145e32fa74a889ed2a4841ae1ed6de46cd
	id	id-5567177576727128574	id	id-8647477806862374945
	abstract		abstract	None

DUPPLICATES 58

	doc_1	doc_2	decision	id
cases	authors • Zhang, L. • Du, B.	authors • Zhang, L. • Du, B.		
	title Some New Existence Results for Positive Periodic Solutions to First-Order Neutral Differential Equations with Variable Coefficients	title Some New Existence Results for Positive Periodic Solutions to First-Order Neutral Differential Equations with Variable Coefficients		
	publication_date 2022-10-13 00:00:00	publication_date None		
	source SupportedSources.CROSSREF	source SupportedSources.UNPAYWALL		
	journal	journal Mathematics		
	volume	volume		
	doi 10.3390/math10203770	doi 10.3390/math10203770		
	urls • https://www.mdpi.com/2227-7390/10/20/3770/pdf • http://dx.doi.org/10.3390/math10203770	urls • https://doi.org/10.3390/math10203770		
	id id-511496914789467151	id id-2377234784876682540		
	abstract	abstract	DUPPLICATES	59

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Moalla, M. • Karroum, R. • Injrou, S. 	authors <ul style="list-style-type: none"> • M. Moalla • R. Karroum • S. Injrou 		
	title Oscillation and disconjugacy for generalised half-linear differential equations with Bohr almost periodic coefficients	title Oscillation and disconjugacy for generalised half-linear differential equations with Bohr almost periodic coefficients		
	publication_date 2022-01-01 00:00:00	publication_date None		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal		
	volume	volume		
	doi 10.1504/ijdsde.2022.10051420	doi 10.1504/ijdsde.2022.10051420		
	urls <ul style="list-style-type: none"> • http://www.inderscienceonline.com/doi/full/10.1504/IJDSDE.2022.10051420 • http://dx.doi.org/10.1504/ijdsde.2022.10051420 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/470faec90cf80f5c3ca61c59c95de7effad4ea9 		
	id id-1137176714937393015	id id-312420865333794519		
	abstract	abstract None	DUPPLICATES	60

	doc_1	doc_2	decision	id
cases	authors	• Demidenko, G. • Matveeva, I. • Skvortsova, M.	authors	• Demidenko, G. • Matveeva, I. • Skvortsova, M.
	title	Estimates for solutions to neutral differential equations with periodic coefficients of linear terms	title	Estimates for solutions to neutral differential equations with periodic coefficients of linear terms
	publication_date	2019-08-30 00:00:00	publication_date	None
	source	SupportedSources.CROSSREF	source	SupportedSources.UNPAYWALL
	journal		journal	Sibirskii matematicheskii zhurnal
	volume		volume	
	doi	10.33048/smzh.2019.60.506	doi	10.33048/smzh.2019.60.506
	urls	• http://dx.doi.org/10.33048/smzh.2019.60.506	urls	• https://doi.org/10.33048/smzh.2019.60.506
	id	id-5894517610214806346	id	id-153308482094946585
	abstract		abstract	

DUPLICATES 61

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> • Demidenko, G. • Matveeva, I. • Skvortsova, M. 	<ul style="list-style-type: none"> • Demidenko, G. • Matveeva, I. • Skvortsova, M. 		
	title	Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms	Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms		
	publication_date	2019-01-01 00:00:00	None		
	source	SupportedSources.CROSSREF	SupportedSources.UNPAYWALL		
	journal		Siberian Mathematical Journal		
	volume				
	doi	10.1134/s0037446619050069	10.1134/s0037446619050069		
	urls	<ul style="list-style-type: none"> • http://link.springer.com/content/pdf/10.1134/S0037446619050069.pdf • http://link.springer.com/article/10.1134/S0037446619050069/fulltext.html • http://link.springer.com/content/pdf/10.1134/S0037446619050069.pdf • http://dx.doi.org/10.1134/s0037446619050069 	<ul style="list-style-type: none"> • https://doi.org/10.1134/s0037446619050069 	DUPPLICATES	62
	id	id-6327912662501437166	id1733208017993083501		
	abstract				

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> • Bi, Z. • Cheng, Z. • Yao, S. 	<ul style="list-style-type: none"> • Bi, Z. • Cheng, Z. • Yao, S. 		
	title	Periodic solutions for p-Laplacian neutral differential equation with multiple delay and variable coefficients	Periodic solutions for p-Laplacian neutral differential equation with multiple delay and variable coefficients		
	publication_date	2019-03-13 00:00:00	None	DUPPLICATES	63
	source	SupportedSources.CROSSREF	SupportedSources.UNPAYWALL		
	journal		Advances in Difference Equations		
	volume				
	doi	10.1186/s13662-018-1942-y	10.1186/s13662-018-1942-y		
	urls	<ul style="list-style-type: none"> • http://link.springer.com/content/pdf/10.1186/s13662-018-1942-y.pdf • http://link.springer.com/article/10.1186/s13662-018-1942-y/fulltext.html • http://link.springer.com/content/pdf/10.1186/s13662-018-1942-y.pdf • http://dx.doi.org/10.1186/s13662-018-1942-y 	<ul style="list-style-type: none"> • https://doi.org/10.1186/s13662-018-1942-y 		
	id	id68601550536078671	id-1657059004036697812		
	abstract				

	doc_1	doc_2	decision	id
cases	authors	• G. Demidenko • I. Matveeva • M. Skvortsova	authors	• Demidenko, G. • Matveeva, I. • Skvortsova, M.
	title	Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms	title	Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms
	publication_date	2019-08-30 00:00:00	publication_date	None
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.UNPAYWALL
	journal	Siberian Mathematical Journal	journal	Siberian Mathematical Journal
	volume	60	volume	
	doi	10.1134/S0037446619050069	doi	10.1134/s0037446619050069
	urls	• https://www.semanticscholar.org/paper/79d715349b1ba97dcc27c25ba9fe8ef79abc9ff4	urls	• https://doi.org/10.1134/s0037446619050069
	id	id-7765202431179083903	id	id1733208017993083501
	abstract	None	abstract	

DUPPLICATES 64

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> Hocine, G. Abdelouahed, A. Ahcene, D. 	authors	<ul style="list-style-type: none"> Hocine, G. Abdelouahed, A. Ahcene, D. 	DUPLICATES 65
	title	Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	title	Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients <td data-kind="ghost"></td>	
	publication_date	2018-01-01 00:00:00	publication_date	None	
	source	SupportedSources.CROSSREF	source	SupportedSources.UNPAYWALL	
	journal		journal	Mathematica Moravica	
	volume		volume		
	doi	10.5937/matmor1802069g	doi	10.5937/matmor1802069g	
	urls	<ul style="list-style-type: none"> https://scindeks-clanci.ceon.rs/data/pdf/1450-5932/2018/1450-59321802069H.pdf http://dx.doi.org/10.5937/matmor1802069g 	urls	<ul style="list-style-type: none"> https://doi.org/10.5937/matmor1802069g 	
	id	id4729086978861901144	id	id2115724014329642422	
	abstract		abstract		

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> • Guentri Hocine • Ardjouni Abdelouahab • Djoudi Ahcene 	authors	<ul style="list-style-type: none"> • Gabsi Hocine • Ardjouni Abdelouahab • D. AhcÃ©ne 	DUPLICATES 66
	title	Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	title	Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients <th data-kind="ghost"></th>	
	publication_date	2018-01-01 00:00:00	publication_date	None	
	source	SupportedSources.OPENALEX	source	SupportedSources.SEMANTIC_SCHOLAR	
	journal	Mathematica Moravica	journal		
	volume		volume	22	
	doi	10.5937/matmor1802069g	doi	10.5937/MATMOR1802069G	
	urls	<ul style="list-style-type: none"> • https://openalex.org/W2905666173 • https://doi.org/10.5937/matmor1802069g • https://scindeks-clanci.ceon.rs/data/pdf/1450-5932/2018/1450-59321802069H.pdf 	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/164fdf2dfb49e9a0acdfec0f82fbe7cc479aaba 	
	id	id-7472807170594844119	id	id-1988213344838111681	
	abstract		abstract	None	

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Gabsi Hocine • Ardjouni Abdelouahab • Djoudi Ahcene 	authors <ul style="list-style-type: none"> • Gabsi Hocine • Ardjouni Abdelouahab • D. Ahcene 		
	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients		
	publication_date 2018-01-01 00:00:00	publication_date None		
	source SupportedSources.INTERNET_ARCHIVE	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Centre for Evaluation in Education and Science (CEON/CEES)	journal		
	volume	volume 22		
	doi 10.5937/matmor1802069g	doi 10.5937/MATMOR1802069G		
	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20190426073252/https://scindeks-clanci.ceon.rs/data/pdf/1450-5932/2018/1450-59321802069H.pdf 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/164fdf2dfb49e9a0acdfecc0f82fbe7cc479aaba 		
	id id2085750112568148620	id id-1988213344838111681		
	abstract In this paper, we use Krasnoselskii's fixed point theorem to establish the existence of positive periodic solutions of second-order nonlinear neutral differential equations. Our techniques can be used and applied to study other classes of problems and extension some results.	abstract None	DUPPLICATES	67

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Fischer, A.	authors <ul style="list-style-type: none">• A. Fischer	DUPLICATES	68
	title Almost periodic solutions with a prescribed spectrum of linear and quasilinear differential equations with almost periodic coefficients and constant time lag (Neutral differential equations)	title Almost periodic solutions with a prescribed spectrum of linear and quasilinear differential equations with almost periodic coefficients and constant time lag (Neutral differential equations)		
	publication_date 2012-01-01 00:00:00	publication_date None		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal		
	volume	volume 137		
	doi 10.21136/mb.2012.142896	doi 10.21136/mb.2012.142896		
	urls <ul style="list-style-type: none">• https://dml.cz/bitstream/handle/10338.dmlcz/142896/MathBohem_137-2012-3_4.pdf• http://dx.doi.org/10.21136/mb.2012.142896	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/179f0b145e32fa74a889ed2a4841ae1ed6de46cd		
	id id-3839458889289569837	id id-8647477806862374945		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Zhang, L. • Du, B. 	authors <ul style="list-style-type: none"> • Lingping Zhang • Bo Du 		
	title <p>Some New Existence Results for Positive Periodic Solutions to First-Order Neutral Differential Equations with Variable Coefficients</p>	title <p>Some New Existence Results for Positive Periodic Solutions to First-Order Neutral Differential Equations with Variable Coefficients</p>		
	publication_date <p>2022-10-13 00:00:00</p>	publication_date <p>2022-10-13 00:00:00</p>		
	source <p>SupportedSources.CROSSREF</p>	source <p>SupportedSources.INTERNET_ARCHIVE</p>		
	journal <p></p>	journal <p>MDPI AG</p>		
	volume <p></p>	volume <p></p>		
	doi <p>10.3390/math10203770</p>	doi <p>10.3390/math10203770</p>		
	urls <ul style="list-style-type: none"> • https://www.mdpi.com/2227-7390/10/20/3770/pdf • http://dx.doi.org/10.3390/math10203770 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20221015023503/https://mdpi-res.com/d_attachment/mathematics/mathematics-10-03770/article_deploy/mathematics-10-03770.pdf?version=1665649233 	DUPPLICATES	69
	id <p>id-511496914789467151</p>	id <p>id-7977500436322258424</p>		
	abstract <p></p>	abstract <p>In this article, we deal with some new existence results for positive periodic solutions for a class of neutral functional differential equations by employing Krasnoselskii's fixed-point theorem and the properties of a neutral operator. Our results generalize corresponding works from the past. An example is given to show the feasibility and application of the obtained results.</p>		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Zhang, L. • Du, B. 	authors <ul style="list-style-type: none"> • Lingping Zhang • Bo Du 		
	title <p>Some New Existence Results for Positive Periodic Solutions to First-Order Neutral Differential Equations with Variable Coefficients</p>	title <p>Some New Existence Results for Positive Periodic Solutions to First-Order Neutral Differential Equations with Variable Coefficients</p>		
	publication_date <p>2022-10-13 00:00:00</p>	publication_date <p>2022-10-13 00:00:00</p>		
	source <p>SupportedSources.CROSSREF</p>	source <p>SupportedSources.SEMANTIC_SCHOLAR</p>		
	journal <p></p>	journal <p></p>		
	volume <p></p>	volume <p></p>		
	doi <p>10.3390/math10203770</p>	doi <p>10.3390/math10203770</p>		
	urls <ul style="list-style-type: none"> • https://www.mdpi.com/2227-7390/10/20/3770/pdf • http://dx.doi.org/10.3390/math10203770 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/9075831e4b40d0f9ebd9c860271afd07a237a83d 		
	id <p>id-511496914789467151</p>	id <p>id-7940836121418272331</p>		
	abstract <p></p>	abstract <p>In this article, we deal with some new existence results for positive periodic solutions for a class of neutral functional differential equations by employing Krasnoselskii's fixed-point theorem and the properties of a neutral operator. Our results generalize corresponding works from the past. An example is given to show the feasibility and application of the obtained results.</p>	DUPPLICATES	70

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> • Lingping Zhang • Bo Du 	authors	<ul style="list-style-type: none"> • Zhang, L. • Du, B. 	
	title	Some New Existence Results for Positive Periodic Solutions to First-Order Neutral Differential Equations with Variable Coefficients	title	Some New Existence Results for Positive Periodic Solutions to First-Order Neutral Differential Equations with Variable Coefficients	
	publication_date	2022-10-13 00:00:00	publication_date	None	DUPPLICATES 71
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.UNPAYWALL	
	journal		journal	Mathematics	
	volume		volume		
	doi	10.3390/math10203770	doi	10.3390/math10203770	
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/9075831e4b40d0f9ebd9c860271afd07a237a83d 	urls	<ul style="list-style-type: none"> • https://doi.org/10.3390/math10203770 	
	id	id-7940836121418272331	id	id-2377234784876682540	
abstract	In this article, we deal with some new existence results for positive periodic solutions for a class of neutral functional differential equations by employing Krasnoselskii's fixed-point theorem and the properties of a neutral operator. Our results generalize corresponding works from the past. An example is given to show the feasibility and application of the obtained results.				

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Zuomao Yan • Li Han 	authors	<ul style="list-style-type: none"> • Zuomao Yan • Li Han
	title	Globally exponential stability of a partial stochastic differential equation with pseudo almost periodic coefficients and infinite delay	title	Globally exponential stability of a partial stochastic differential equation with pseudo almost periodic coefficients and infinite delay
	publication_date	2021-06-11 00:00:00	publication_date	2021-03-01 00:00:00
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR
	journal	Indian Journal of Pure and Applied Mathematics	journal	Indian Journal of Pure and Applied Mathematics
	volume		volume	52
	doi	10.1007/s13226-021-00065-0	doi	10.1007/s13226-021-00065-0
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/ace2b07bce1f591baa8e015c1c2aaf53525f12cf 	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/2a6c7312d4d0e76c0a83d55d5b9dfbee6e9e0cf9
	id	id1149662468993123528	id	id-1552960064099855510
	abstract	None	abstract	None

DUPPLICATES 72

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Andriy Stanzytskyi • Oleksandr Stanzytskyi • Oleksandr Misiats 	authors <ul style="list-style-type: none"> • A. Stanzytskyi • Oleksandr Stanzytskyi • Oleksandr Misiats 		
	title Invariant Measure for Neutral Stochastic Functional Differential Equations with Non-Lipschitz Coefficients	title Invariant measure for neutral stochastic functional differential equations with non-Lipschitz coefficients		
	publication_date 2021-11-11 22:59:01+00:00	publication_date 2021-11-11 00:00:00		
	source SupportedSources.ARXIV	source SupportedSources.SEMANTIC_SCHOLAR		
	journal None	journal		
	volume	volume		
	doi	doi 10.3934/eect.2022005		
	urls <ul style="list-style-type: none"> • http://arxiv.org/pdf/2111.06492v1 • http://arxiv.org/abs/2111.06492v1 • http://arxiv.org/pdf/2111.06492v1 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/03b3e21b23da93d56cdd418efec80ae269cf004d 		
	id id5940007233893749820	id id-5498514279263056819		
	abstract <p>In this work we study the long time behavior of nonlinear stochastic functional-differential equations of neutral type in Hilbert spaces with non-Lipschitz nonlinearities. We establish the existence of invariant measures in the shift spaces for such equations. Our approach is based on Krylov-Bogoliubov theorem on the tightness of the family of measures.</p>	abstract <p>In this work we study the long time behavior of nonlinear stochastic functional-differential equations of neutral type in Hilbert spaces with non-Lipschitz nonlinearities. We establish the existence of invariant measures in the shift spaces for such equations. Our approach is based on Krylov-Bogoliubov theorem on the tightness of the family of measures.</p>	DUPPLICATES	73

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Church, K.	authors <ul style="list-style-type: none">• Kevin E. M. Church	DUPLICATES	74
	title Eigenvalues and delay differential equations: periodic coefficients, impulses and rigorous numerics	title Eigenvalues and delay differential equations: periodic coefficients, impulses and rigorous numerics		
	publication_date 2020-10-08 00:00:00	publication_date 2020-10-08 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Journal of Dynamics and Differential Equations		
	volume	volume 33		
	doi 10.1007/s10884-020-09900-0	doi 10.1007/s10884-020-09900-0		
	urls <ul style="list-style-type: none">• https://link.springer.com/content/pdf/10.1007/s10884-020-09900-0.pdf• https://link.springer.com/article/10.1007/s10884-020-09900-0/fulltext.html• https://link.springer.com/content/pdf/10.1007/s10884-020-09900-0.pdf• http://dx.doi.org/10.1007/s10884-020-09900-0	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/e0eb7ae9e54dda83845e661f6a1349afa143d03b		
	id id-7686108973236278481	id id4752526222279673031		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Zhonghua Bi • Zhibo Cheng • Shaowen Yao 		
	title	Periodic solutions for p-Laplacian neutral differential equation with multiple delay and variable coefficients		
	publication_date	2019-12-01 00:00:00		
	source	SupportedSources.SEMANTIC_SCHOLAR		
	journal	Advances in Difference Equations		
	volume	2019		
	doi	10.1186/S13662-018-1942-Y		
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/1cc4c956e6a594caf4606661c225945534f4d978 		
	id	id8233019558542377720		
	abstract	None		
DUPLICATES 75				

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Zhonghua Bi • Zhibo Cheng • Shaowen Yao 	authors	<ul style="list-style-type: none"> • Zhonghua Bi • Zhibo Cheng • Shaowen Yao
	title	Periodic solutions for p-Laplacian neutral differential equation with multiple delay and variable coefficients	title	Periodic solutions for p-Laplacian neutral differential equation with multiple delay and variable coefficients
	publication_date	2019-03-13 00:00:00	publication_date	2019-03-13 00:00:00
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.INTERNET_ARCHIVE
	journal	Advances in Difference Equations	journal	Springer Nature
	volume	2019	volume	
	doi	10.1186/s13662-018-1942-y	doi	10.1186/s13662-018-1942-y
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/c38dda6390a3ff5e8d50a481392c7bf330ffe108 	urls	<ul style="list-style-type: none"> • https://web.archive.org/web/20190428021824/https://advancesindifferenceequations.springeropen.com/track/pdf/10.1186/s13662-018-1942-y
	id	id-117338742588025715	id	id2774442653456102626
	abstract	None	abstract	<p>In this paper, we first discuss some properties of the neutral operator with multiple delays and variable coefficients $(Ax)(t) := x(t) - \sum_{i=1}^n c_i(t)x(t-\tau_i)$. Afterwards, by using an extension of Mawhin's continuation theorem, a second order p-Laplacian neutral differential equation is studied. Some new results on the existence of a periodic solution are obtained. Meanwhile, the approaches to estimate a priori bounds of periodic solutions are different from those known in the literature. MSC: 34C25; 34K14 and $c_i(t+T) = c_i(t)$ and τ_i are constants in $[0, T]$ for $i = 1, 2, \dots, n$; $f: [0, T] \rightarrow \mathbb{R}$ is an L^2-Carathéodory function, i.e., it is measurable in the first variable and continuous in the second variable, and for every $0 < r < s$ there exists $h, r, s \in L^2[0, T]$ such that $f(t, x(t), x'(t)) \leq h(t)$ for all $x \in [r, s]$ and a.e. $t \in [0, T]$. The study of the properties of the neutral operator $(A_1x)(t) := x(t) - \sum_{i=1}^n c_i(t)x(t-\tau_i)$ began with the paper of Zhang [2]. In 2004, Lu and Ge [14] investigated an extension of A_1, namely the neutral operator $(A_2x)(t) := x(t) - \sum_{i=1}^n c_i(t)x(t-\tau_i)$. Afterwards, Du [6] discussed the neutral operator $(A_3x)(t) := x(t)c(t)x(t-\tau_i)$, here $c(t)$ is a T-periodic function. And by using</p>

DUPLICATES 76

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Jervin Zen Lobo• Y. S. Valaulikar	authors <ul style="list-style-type: none">• Jervin Zen Lobo• Y. S. Valaulikar		
	title Group classification of second order neutral differential equations	title Group classification of second order neutral differential equations		
	publication_date 2019-12-31 09:02:55+00:00	publication_date 2019-12-31 00:00:00		
	source SupportedSources.ARXIV	source SupportedSources.SEMANTIC_SCHOLAR		
	journal None	journal arXiv: Classical Analysis and ODEs		
	volume	volume		
	doi	doi		
	urls <ul style="list-style-type: none">• http://arxiv.org/pdf/1912.13228v1• http://arxiv.org/abs/1912.13228v1• http://arxiv.org/pdf/1912.13228v1	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/18f782190915b6b07190864c69bfb6a95ff6915d	DUPPLICATES 78	
	id id8630896400340256971	id id-7656181386231371745		
	abstract <p>In this paper, we discuss the method of obtaining symmetries for second order nonhomogeneous neutral differential equations with variable coefficients. We use Taylor theorem for a function of several variables to obtain a Lie type invariance condition and the determining equations. Further we make a complete group classification of the second order linear neutral differential equation, for which there is no existing literature. As a special case, we present a complete group classification of the corresponding second order linear delay differential equation.</p>	abstract <p>In this paper, we discuss the method of obtaining symmetries for second order nonhomogeneous neutral differential equations with variable coefficients. We use Taylor theorem for a function of several variables to obtain a Lie type invariance condition and the determining equations. Further we make a complete group classification of the second order linear neutral differential equation, for which there is no existing literature. As a special case, we present a complete group classification of the corresponding second order linear delay differential equation.</p>		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• G. V. Demidenko• I. I. Matveeva• M. A. Skvortsova	authors <ul style="list-style-type: none">• Demidenko, G.• Matveeva, I.• Skvortsova, M.		
	title Estimates for solutions to neutral differential equations with periodic coefficients of linear terms	title Estimates for solutions to neutral differential equations with periodic coefficients of linear terms		
	publication_date 2019-08-30 00:00:00	publication_date None		
	source SupportedSources.INTERNET_ARCHIVE	source SupportedSources.UNPAYWALL		
	journal Sobolev Institute of Mathematics	journal Sibirskii matematicheskii zhurnal		
	volume	volume		
	doi 10.33048/smzh.2019.60.506	doi 10.33048/smzh.2019.60.506		
	urls <ul style="list-style-type: none">• https://web.archive.org/web/20220518213547/http://www.mathnet.ru/links/7ba867072bee1a98b99fdd6a4f528c86/smj3133.pdf	urls <ul style="list-style-type: none">• https://doi.org/10.33048/smzh.2019.60.506		
	id id-8149381196872574119	id id-153308482094946585		
	abstract Use of the all-Russian mathematical portal Math-Net.Ru implies that you have read and agreed to these terms of use	abstract	DUPPLICATES	79

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Hocine, G.• Abdelouaheb, A.• Ahcene, D.	authors <ul style="list-style-type: none">• Guentri Hocine• Ardjouni Abdelouaheb• Djoudi Ahcene		
	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients		
	publication_date 2018-01-01 00:00:00	publication_date 2018-01-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.OPENALEX		
	journal	journal Mathematica Moravica		
	volume	volume		
	doi 10.5937/matmor1802069g	doi 10.5937/matmor1802069g		
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	id id4729086978861901144	id id-7472807170594844119		
	abstract	abstract		

DUPLICATES 80

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> Hocine, G. Abdelouahed, A. Ahcene, D. 	authors	<ul style="list-style-type: none"> Gabsi Hocine Ardjouni Abdelouahed D. Ahcene 	DUPLICATES 81
	title	Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	title	Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients <th data-kind="ghost"></th>	
	publication_date	2018-01-01 00:00:00	publication_date	None	
	source	SupportedSources.CROSSREF	source	SupportedSources.SEMANTIC_SCHOLAR	
	journal		journal		
	volume		volume	22	
	doi	10.5937/matmor1802069g	doi	10.5937/MATMOR1802069G	
	urls	<ul style="list-style-type: none"> https://scindeks-clanci.ceon.rs/data/pdf/1450-5932/2018/1450-59321802069H.pdf http://dx.doi.org/10.5937/matmor1802069g 	urls	<ul style="list-style-type: none"> https://www.semanticscholar.org/paper/164fdf2dfb49e9a0acdfec0f82fbe7cc479aaba 	
	id	id4729086978861901144	id	id-1988213344838111681	
	abstract		abstract	None	

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Yu, Y. • Gong, S. 	authors <ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong 		
	title Pseudo-almost periodic solutions for first-order neutral differential equations	title Pseudo-almost periodic solutions for first-order neutral differential equations		
	publication_date 2018-03-27 00:00:00	publication_date 2018-12-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Advances in Difference Equations		DUPPLICATES
	volume	volume 2018		82
	doi 10.1186/s13662-018-1568-0	doi 10.1186/S13662-018-1568-0		
	urls <ul style="list-style-type: none"> • http://link.springer.com/content/pdf/10.1186/s13662-018-1568-0.pdf • http://link.springer.com/article/10.1186/s13662-018-1568-0/fulltext.html • http://link.springer.com/content/pdf/10.1186/s13662-018-1568-0.pdf • http://dx.doi.org/10.1186/s13662-018-1568-0 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/367648f12d887c9dde7a7333c015e0091731f709 		
	id id-497523385049402645	id id-7837313542506238461		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors			
	title	Existence of positive periodic solution of second-order neutral differential equations		
	publication_date	2018-05-08 00:00:00		
	source	SupportedSources.CROSSREF		
	journal			
	volume			
	doi	10.3906/mat-1704-41		
	urls	• http://dx.doi.org/10.3906/mat-1704-41		
	id	id8926993168491983839		
	abstract			

	doc_1	doc_2	decision	id
cases	authors	• T. Candan		
	title	Existence of positive periodic solution of second-order neutral differential equations		
	publication_date	2018-05-08 00:00:00		
	source	SupportedSources.SEMANTIC_SCHOLAR		
	journal	Turkish Journal of Mathematics		
	volume	42		
	doi	10.3906/mat-1704-41		
	urls	• https://www.semanticscholar.org/paper/f80d07ce92b46db01a9ec96f18b025308a6d7579		
	id	id8627605286491282864		
	abstract	In this work, we consider two types of second-order neutral differential equations and we obtain sufficient conditions for the existence of positive π -periodic solutions for these equations. We employ Krasnoselskii's fixed point theorem for the sum of a completely continuous and a contraction mapping. An example is included to illustrate our results.		

DUPLICATES 83

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Yu, Y. • Gong, S. 	authors <ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong 		
	title New results on positive almost periodic solutions for first-order neutral differential equations	title New results on positive almost periodic solutions for first-order neutral differential equations		
	publication_date 2018-05-21 00:00:00	publication_date 2018-12-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Advances in Difference Equations		
	volume	volume 2018		
	doi 10.1186/s13662-018-1648-1	doi 10.1186/S13662-018-1648-1		
	urls <ul style="list-style-type: none"> • http://link.springer.com/content/pdf/10.1186/s13662-018-1648-1.pdf • http://link.springer.com/article/10.1186/s13662-018-1648-1/fulltext.html • http://link.springer.com/content/pdf/10.1186/s13662-018-1648-1.pdf • http://dx.doi.org/10.1186/s13662-018-1648-1 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/38ea55b042f0679c9e7198eeccb38a06328340f1 	DUPPLICATES	84
	id id3580221768172007950	id id-4279890873195394542		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Yu, Y. • Gong, S. 	authors <ul style="list-style-type: none"> • Branka Vucetic • Shuhua Gong 		
	title New results on positive almost periodic solutions for first-order neutral differential equations	title New results on positive almost periodic solutions for first-order neutral differential equations		
	publication_date 2018-05-21 00:00:00	publication_date 2018-12-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.OPENALEX		
	journal	journal Advances in Difference Equations		
	volume	volume		
	doi 10.1186/s13662-018-1648-1	doi 10.1186/s13662-018-1648-1		
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	id id3580221768172007950	id id-3318555343433294353		
	abstract	abstract		

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Yu, Y. • Gong, S. 	authors	<ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong
	title	New results on positive almost periodic solutions for first-order neutral differential equations	title	New results on positive almost periodic solutions for first-order neutral differential equations
	publication_date	2018-05-21 00:00:00	publication_date	2018-05-21 00:00:00
	source	SupportedSources.CROSSREF	source	SupportedSources.INTERNET_ARCHIVE
	journal		journal	Springer Nature
	volume		volume	
	doi	10.1186/s13662-018-1648-1	doi	10.1186/s13662-018-1648-1
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	id	id3580221768172007950	id	id-6398570401718766900
	abstract		abstract	In this paper, a class of first-order neutral differential equations with time-varying delays and coefficients is considered. Some results on the existence of positive almost periodic solutions for the equations are obtained by using the contracting mapping principle and the differential inequality technique. In addition, an example is given to illustrate our results. MSC: 34C25; 34K13

DUPPLICATES 86

	doc_1	doc_2	decision	id	
cases	authors	• Yuehua Yu • Shuhua Gong	authors	• Yuehua Yu • Shuhua Gong	
	title	Pseudo-almost periodic solutions for first-order neutral differential equations	title	Pseudo-almost periodic solutions for first-order neutral differential equations	
	publication_date	2018-12-01 00:00:00	publication_date	2018-03-27 00:00:00	
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR	
	journal	Advances in Difference Equations	journal	Advances in Difference Equations	
	volume	2018	volume	2018	
	doi	10.1186/S13662-018-1568-0	doi	10.1186/s13662-018-1568-0	
	urls	• https://www.semanticscholar.org/paper/367648f12d887c9dde7a7333c015e0091731f709	urls	• https://www.semanticscholar.org/paper/7177b432d50cb2688c39ab265a3e2a78573e0330	
	id	id-7837313542506238461	id	id-4952773375269822773	
abstract	None	abstract	None	DUPPLICATES 87	

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong 	authors <ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong 		
	title Pseudo-almost periodic solutions for first-order neutral differential equations	title Pseudo-almost periodic solutions for first-order neutral differential equations		
	publication_date 2018-12-01 00:00:00	publication_date 2018-03-27 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal Advances in Difference Equations	journal Springer Nature		
	volume 2018	volume		
	doi 10.1186/S13662-018-1568-0	doi 10.1186/s13662-018-1568-0		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/367648f12d887c9dde7a7333c015e0091731f709 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20190427132656/https://advancesindifferenceequations.springeropen.com/track/pdf/10.1186/s13662-018-1568-0 		
	id id-7837313542506238461	id id80656481244765412		
	abstract None	abstract <p>In this paper, we study a class of first-order neutral differential equations with time-varying delays and coefficients. Employing the fixed point method and differential inequality techniques, easily verifiable delay-independent criteria are established to ensure the existence and global exponential stability of pseudo-almost periodic solutions for the addressed equations. These theoretical results are also supported with numerical simulations. MSC: 34C25; 34K13 Keywords: Pseudo-almost periodic solution; First-order neutral differential equation; Existence; Global exponential stability where $Q, P \in C(R, (0, +\infty))$, $\tilde{I}_1, 1/\tilde{I}_1, 2 \in C(R, [0, +\infty))$ are bounded, and $f \in C(R \times R, R)$. Recently, the existence and stability of periodic solutions or pseudo-almost periodic solutions of (1.2) and its generalized equations have been extensively studied. For example, criteria ensuring the existence of periodic solutions are established in [3-9] and some</p>	DUPLICATES	88

	doc_1	doc_2	decision	id	
cases	authors	• Yuehua Yu • Shuhua Gong	authors	• Yuehua Yu • Shuhua Gong	DUPLICATES 89
	title	New results on positive almost periodic solutions for first-order neutral differential equations	title	New results on positive almost periodic solutions for first-order neutral differential equations <th data-kind="ghost"></th>	
	publication_date	2018-12-01 00:00:00	publication_date	2018-05-21 00:00:00	
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR	
	journal	Advances in Difference Equations	journal	Advances in Difference Equations	
	volume	2018	volume	2018	
	doi	10.1186/S13662-018-1648-1	doi	10.1186/s13662-018-1648-1	
	urls	• https://www.semanticscholar.org/paper/38ea55b042f0679c9e7198eeccb38a06328340f1	urls	• https://www.semanticscholar.org/paper/c9f74c691d90f7c6625fe571357ca7be27e60e8f	
	id	id-4279890873195394542	id	id246927730157236822	
	abstract	None	abstract	None	

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong 	authors <ul style="list-style-type: none"> • Branka Vucetic • Shuhua Gong 		
	title New results on positive almost periodic solutions for first-order neutral differential equations	title New results on positive almost periodic solutions for first-order neutral differential equations		
	publication_date 2018-12-01 00:00:00	publication_date 2018-12-01 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.OPENALEX		
	journal Advances in Difference Equations	journal Advances in Difference Equations		
	volume 2018	volume		
	doi 10.1186/S13662-018-1648-1	doi 10.1186/s13662-018-1648-1		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/38ea55b042f0679c9e7198eeccb38a06328340f1 	urls <ul style="list-style-type: none"> • https://openalex.org/W2806725020 • https://doi.org/10.1186/s13662-018-1648-1 • https://advancesindifferenceequations.springeropen.com/track/pdf/10.1186/s13662-018-1648-1 	DUPPLICATES	90
	id id-4279890873195394542	id id-3318555343433294353		
	abstract None	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong 	authors <ul style="list-style-type: none"> • Yuehua Yu • Shuhua Gong 		
	title New results on positive almost periodic solutions for first-order neutral differential equations	title New results on positive almost periodic solutions for first-order neutral differential equations		
	publication_date 2018-05-21 00:00:00	publication_date 2018-05-21 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal Advances in Difference Equations	journal Springer Nature		
	volume 2018	volume		
	doi 10.1186/s13662-018-1648-1	doi 10.1186/s13662-018-1648-1		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/c9f74c691d90f7c6625fe571357ca7be27e60e8f 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20190305130711/http://pdfs.semanticscholar.org/c9f7/4c691d90f7c6625fe571357ca7be27e60e8f.pdf 		
	id id246927730157236822	id id-6398570401718766900		
	abstract None	abstract In this paper, a class of first-order neutral differential equations with time-varying delays and coefficients is considered. Some results on the existence of positive almost periodic solutions for the equations are obtained by using the contracting mapping principle and the differential inequality technique. In addition, an example is given to illustrate our results. MSC: 34C25; 34K13		DUPPLICATES 91

	doc_1	doc_2	decision	id
cases	authors • Yuehua Yu • Shuhua Gong	authors • Yuehua Yu • Shuhua Gong		
	title Pseudo-almost periodic solutions for first-order neutral differential equations	title Pseudo-almost periodic solutions for first-order neutral differential equations		
	publication_date 2018-03-27 00:00:00	publication_date 2018-03-27 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal Advances in Difference Equations	journal Springer Nature		
	volume 2018	volume		
	doi 10.1186/s13662-018-1568-0	doi 10.1186/s13662-018-1568-0		
	urls • https://www.semanticscholar.org/paper/7177b432d50cb2688c39ab265a3e2a78573e0330	urls • https://web.archive.org/web/20190427132656/https://advancesindifferenceequations.springeropen.com/track/pdf/10.1186/s13662-018-1568-0		
	id id-4952773375269822773	id id80656481244765412		
	abstract None	abstract In this paper, we study a class of first-order neutral differential equations with time-varying delays and coefficients. Employing the fixed point method and differential inequality techniques, easily verifiable delay-independent criteria are established to ensure the existence and global exponential stability of pseudo-almost periodic solutions for the addressed equations. These theoretical results are also supported with numerical simulations. MSC: 34C25; 34K13 Keywords: Pseudo-almost periodic solution; First-order neutral differential equation; Existence; Global exponential stability where $Q, P \in C(R, (0, +\infty))$, $\tilde{I}_1, 1, \tilde{I}_2, 2 \in C(R, [0, +\infty))$ are bounded, and $f \in C(R \times R, R)$. Recently, the existence and stability of periodic solutions or pseudo-almost periodic solutions of (1.2) and its generalized equations have been extensively studied. For example, criteria ensuring the existence of periodic solutions are established in [3-9] and some	DUPLICATES	92

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Zhibo Cheng • Feifan Li 	authors	<ul style="list-style-type: none"> • Zhibo Cheng • Feifan Li
	title	Positive Periodic Solutions for a Kind of Second-Order Neutral Differential Equations with Variable Coefficient and Delay	title	Positive Periodic Solutions for a Kind of Second-Order Neutral Differential Equations with Variable Coefficient and Delay
	publication_date	2018-05-31 00:00:00	publication_date	2018-05-31 00:00:00
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR
	journal	Mediterranean Journal of Mathematics	journal	Mediterranean Journal of Mathematics
	volume	15	volume	15
	doi	10.1007/S00009-018-1184-Y	doi	10.1007/s00009-018-1184-y
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/28a39d13ed1199f41de63754ed6a43ad1fcfe998 	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/df68dedebec63b1c5116453174d64b7a39394ee5
	id	id-4286650246627283091	id	id8776496592180086204
	abstract	None	abstract	None

DUPPLICATES 93

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Zhibo Cheng • Feifan Li 	authors	<ul style="list-style-type: none"> • Cheng, Z. • Li, F.
	title	Positive Periodic Solutions for a Kind of Second-Order Neutral Differential Equations with Variable Coefficient and Delay	title	Positive Periodic Solutions for a Kind of Second-Order Neutral Differential Equations with Variable Coefficient and Delay
	publication_date	2018-05-31 00:00:00	publication_date	None
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.UNPAYWALL
	journal	Mediterranean Journal of Mathematics	journal	Mediterranean Journal of Mathematics
	volume	15	volume	
	doi	10.1007/s00009-018-1184-y	doi	10.1007/s00009-018-1184-y
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/df68dedebec63b1c5116453174d64b7a39394ee5 	urls	<ul style="list-style-type: none"> • https://doi.org/10.1007/s00009-018-1184-y
	id	id8776496592180086204	id	id-2493433822877257902
	abstract	None	abstract	

DUPPLICATES 94

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Zhibo Cheng • Fei-Fan Li 	authors	<ul style="list-style-type: none"> • Cheng, Z. • Li, F.
	title	Positive Periodic Solutions for a Kind of Second-Order Neutral Differential Equations with Variable Coefficient and Delay	title	Positive Periodic Solutions for a Kind of Second-Order Neutral Differential Equations with Variable Coefficient and Delay
	publication_date	2018-05-31 00:00:00	publication_date	None
	source	SupportedSources.OPENALEX	source	SupportedSources.UNPAYWALL
	journal	Mediterranean Journal of Mathematics	journal	Mediterranean Journal of Mathematics
	volume		volume	
	doi	10.1007/s00009-018-1184-y	doi	10.1007/s00009-018-1184-y
	urls	<ul style="list-style-type: none"> • https://openalex.org/W2805556900 • https://doi.org/10.1007/s00009-018-1184-y 	urls	<ul style="list-style-type: none"> • https://doi.org/10.1007/s00009-018-1184-y
	id	id-7887414313465154130	id	id-2493433822877257902
	abstract		abstract	

DUPPLICATES 95

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Abdelouahed Ardjouni • Ahcene Djoudi • Hocine Gabsi 	authors <ul style="list-style-type: none"> • Gabsi Hocine • Ardjouni Abdelouahed • Djoudi Ahcene 		
	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients		
	publication_date 2018-01-01 00:00:00	publication_date 2018-01-01 00:00:00		
	source SupportedSources.CORE	source SupportedSources.INTERNET_ARCHIVE		
	journal Mathematica Moravica	journal Centre for Evaluation in Education and Science (CEON/CEES)		
	volume	volume		
	doi None	doi 10.5937/matmor1802069g		
	urls <ul style="list-style-type: none"> • https://core.ac.uk/download/201451407.pdf 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20190426073252/https://scindeks-clanci.ceon.rs/data/pdf/1450-5932/2018/1450-59321802069H.pdf 		
	id id-6304551383133223667	id id2085750112568148620		
	abstract In this paper, we use Krasnoselskii's fixed point theorem to establish the existence of positive periodic solutions of second-order nonlinear neutral differential equations. Our techniques can be used and applied to study other classes of problems and extension some results	abstract In this paper, we use Krasnoselskii's fixed point theorem to establish the existence of positive periodic solutions of second-order nonlinear neutral differential equations. Our techniques can be used and applied to study other classes of problems and extension some results.	DUPPLICATES	96

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Candan, T.	authors <ul style="list-style-type: none">• T. Candan	DUPLICATES	97
	title Existence of positive periodic solutions of first order neutral differential equations with variable coefficients	title Existence of positive periodic solutions of first order neutral differential equations with variable coefficients		
	publication_date 2016-01-01 00:00:00	publication_date 2016-02-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Appl. Math. Lett.		
	volume	volume 52		
	doi 10.1016/j.aml.2015.08.014	doi 10.1016/j.aml.2015.08.014		
	urls <ul style="list-style-type: none">• https://api.elsevier.com/content/article/PII:S0893965915002529?httpAccept=text/xml• https://api.elsevier.com/content/article/PII:S0893965915002529?httpAccept=text/plainhttp://dx.doi.org/10.1016/j.aml.2015.08.014	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/91ea5d0f93acee4860683af050f70edd31765be7		
	id id-5118805091479732282	id id-784252599263795902		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Candan, T.	authors <ul style="list-style-type: none">• Tuncay Candan		
	title Existence of positive periodic solutions of first order neutral differential equations with variable coefficients	title Existence of positive periodic solutions of first order neutral differential equations with variable coefficients		
	publication_date 2016-01-01 00:00:00	publication_date 2016-02-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.OPENALEX		
	journal	journal Applied Mathematics Letters		
	volume	volume 52		
	doi 10.1016/j.aml.2015.08.014	doi 10.1016/j.aml.2015.08.014		
	urls <ul style="list-style-type: none">• https://api.elsevier.com/content/article/PII:S0893965915002529?httpAccept=text/xml• https://api.elsevier.com/content/article/PII:S0893965915002529?httpAccept=text/plain• http://dx.doi.org/10.1016/j.aml.2015.08.014	urls <ul style="list-style-type: none">• https://openalex.org/W1633700623• https://doi.org/10.1016/j.aml.2015.08.014• https://doi.org/10.1016/j.aml.2015.08.014		
	id id-5118805091479732282	id id-5496450930681203834		
	abstract	abstract	DUPPLICATES	98

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Demidenko, G.	authors <ul style="list-style-type: none">• G. Demidenko		
	title On conditions for exponential dichotomy of systems of linear differential equations with periodic coefficients	title On conditions for exponential dichotomy of systems of linear differential equations with periodic coefficients		
	publication_date 2016-01-01 00:00:00	publication_date 2016-02-08 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal International Journal of Dynamical Systems and Differential Equations		
	volume	volume		
	doi 10.1504/ijdsde.2016.074581	doi 10.1504/ijdsde.2016.074581		
	urls <ul style="list-style-type: none">• http://dx.doi.org/10.1504/ijdsde.2016.074581	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/80d4e6799004187b55bd9f971e9be60d2ad25592		
	id id-5296258364249465041	id id-2484564555676622150		
	abstract	abstract We establish new conditions for exponential dichotomy of systems of linear differential equations with periodic coefficients. The conditions are formulated in terms of solvability of a special boundary value problem for the Lyapunov differential equation. Estimates for the dichotomy parameters are obtained.	DUPPLICATES	99

	doc_1	doc_2	decision	id
cases	authors • T. Candan title Existence of positive periodic solutions of first order neutral differential equations with variable coefficients publication_date 2016-02-01 00:00:00 source SupportedSources.SEMANTIC_SCHOLAR journal Appl. Math. Lett. volume 52 doi 10.1016/j.aml.2015.08.014 urls • https://www.semanticscholar.org/paper/91ea5d0f93acee4860683af050f70edd31765be7 id id-784252599263795902 abstract None	authors • Tuncay Candan title Existence of positive periodic solutions of first order neutral differential equations with variable coefficients publication_date 2016-02-01 00:00:00 source SupportedSources.OPENALEX journal Applied Mathematics Letters volume 52 doi 10.1016/j.aml.2015.08.014 urls • https://openalex.org/W1633700623 • https://doi.org/10.1016/j.aml.2015.08.014 • https://doi.org/10.1016/j.aml.2015.08.014 id id-5496450930681203834 abstract	DUPPLICATES	100

	doc_1	doc_2	decision	id	
cases	authors	• C. Jiang • Ying Jiang • Tongxing Li	authors	• C. Jiang • Ying Jiang • Tongxing Li	
	title	Asymptotic behavior of third-order differential equations with nonpositive neutral coefficients and distributed deviating arguments	title	Asymptotic behavior of third-order differential equations with nonpositive neutral coefficients and distributed deviating arguments	
	publication_date	2016-04-12 00:00:00	publication_date	2016-04-12 00:00:00	
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR	
	journal	Advances in Difference Equations	journal	Advances in Difference Equations	
	volume	2016	volume	2016	
	doi	10.1186/S13662-016-0833-3	doi	10.1186/s13662-016-0833-3	
	urls	• https://www.semanticscholar.org/paper/152d1a1e225bdfe6ac3bc3b7a0f931314c15b95a	urls	• https://www.semanticscholar.org/paper/01c185aac5ac8afe4f58ce5efaf7c5b80184a15d	
	id	id-9212504736882795437	id	id6157615919619109278	
abstract	None	abstract	None	DUPPLICATES 101	

	doc_1	doc_2	decision	id
cases	authors • Tuncay Candan	authors • Candan, T.	DUPLICATES	102
	title Existence of positive periodic solutions of first order neutral differential equations with variable coefficients	title Existence of positive periodic solutions of first order neutral differential equations with variable coefficients		
	publication_date 2016-02-01 00:00:00	publication_date None		
	source SupportedSources.OPENALEX	source SupportedSources.UNPAYWALL		
	journal Applied Mathematics Letters	journal Applied Mathematics Letters		
	volume 52	volume		
	doi 10.1016/j.aml.2015.08.014	doi 10.1016/j.aml.2015.08.014		
	urls <ul style="list-style-type: none"> • https://openalex.org/W1633700623 • https://doi.org/10.1016/j.aml.2015.08.014 • https://doi.org/10.1016/j.aml.2015.08.014 	urls <ul style="list-style-type: none"> • https://doi.org/10.1016/j.aml.2015.08.014 		
	id id-5496450930681203834	id id-1579112227962458378		
	abstract	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Demidenko, G. • Matveeva, I. 	authors <ul style="list-style-type: none"> • Demidenko, Gennadii • Matveeva, Inessa 		
	title <p>Estimates for solutions to a class of time-delay systems of neutral type with periodic coefficients and several delays</p>	title <p>Estimates for solutions to a class of time-delay systems of neutral type with periodic coefficients and several delays</p>		
	publication_date <p>2015-01-01 00:00:00</p>	publication_date <p>2015-01-01 00:00:00</p>		
	source <p>SupportedSources.CROSSREF</p>	source <p>SupportedSources.CORE</p>		
	journal <p></p>	journal <p>Electronic journal of qualitative theory of differential equations</p>		
	volume <p></p>	volume <p></p>		
	doi <p>10.14232/ejqtde.2015.1.83</p>	doi <p>10.14232/ejqtde.2015.1.83</p>		
	urls <ul style="list-style-type: none"> • http://www.math.u-szeged.hu/ejqtde/p4183.pdf • http://dx.doi.org/10.14232/ejqtde.2015.1.83 	urls <ul style="list-style-type: none"> • https://core.ac.uk/download/42941987.pdf 		
	id <p>id4575802402874162827</p>	id <p>id568820423922041800</p>		
	abstract <p></p>	abstract <p>We consider a class of nonlinear time-delay systems of neutral type with periodic coefficients in linear terms and several delays. We establish conditions under which the zero solution is exponentially stable and obtain estimates characterizing exponential decay of solutions at infinity. The conditions are formulated in terms of differential matrix inequalities. All the values characterizing the decay rate are written out in explicit form</p>	DUPPLICATES	103

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Demidenko, G. • Matveeva, I. 	authors <ul style="list-style-type: none"> • Gennadii Demidenko • Inessa Matveeva 		
	title <p>Estimates for solutions to a class of time-delay systems of neutral type with periodic coefficients and several delays</p>	title <p>Estimates for solutions to a class of time-delay systems of neutral type with periodic coefficients and several delays</p>		
	publication_date <p>2015-01-01 00:00:00</p>	publication_date <p>2015-01-01 00:00:00</p>		
	source <p>SupportedSources.CROSSREF</p>	source <p>SupportedSources.INTERNET_ARCHIVE</p>		
	journal <p></p>	journal <p>University of Szeged</p>		
	volume <p></p>	volume <p></p>		
	doi <p>10.14232/ejqtde.2015.1.83</p>	doi <p>10.14232/ejqtde.2015.1.83</p>		
	urls <ul style="list-style-type: none"> • http://www.math.u-szeged.hu/ejqtde/p4183.pdf • http://dx.doi.org/10.14232/ejqtde.2015.1.83 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20180722142631/http://real.mtak.hu/32241/1/p4183.pdf 		
	id <p>id4575802402874162827</p>	id <p>id521611528284903321</p>		
	abstract <p></p>	abstract <p>We consider a class of nonlinear time-delay systems of neutral type with periodic coefficients in linear terms and several delays. We establish conditions under which the zero solution is exponentially stable and obtain estimates characterizing exponential decay of solutions at infinity. The conditions are formulated in terms of differential matrix inequalities. All the values characterizing the decay rate are written out in explicit form.</p>	DUPPLICATES	104

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Hasil, P. • Veselá, M. 	authors <ul style="list-style-type: none"> • P. Hasil • M. Veselá 		
	title Non-oscillation of half-linear differential equations with periodic coefficients	title Non-oscillation of half-linear differential equations with periodic coefficients		
	publication_date 2015-01-01 00:00:00	publication_date None		DUPPLICATES
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		105
	journal	journal Electronic Journal of Qualitative Theory of Differential Equations		
	volume	volume 2015		
	doi 10.14232/ejqtde.2015.1.1	doi 10.14232/EJQTDE.2015.1.1		
	urls <ul style="list-style-type: none"> • http://www.math.u-szeged.hu/ejqtde/p3311.pdf • http://dx.doi.org/10.14232/ejqtde.2015.1.1 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/e0ae4868b19743678d419243fef11af5970dbb1c 		
	id id5693851441551126129	id id-9221531724286405197		
	abstract	abstract We consider half-linear Euler type differential equations with general periodic coefficients. It is well-known that these equations are conditionally oscillatory, i.e., there exists a border value given by their coefficients which separates oscillatory equations from non-oscillatory ones. In this paper, we study oscillatory properties in the border case. More precisely, we prove that the considered equations are non-oscillatory in this case. Our results cover the situation when the periodic coefficients do not have any		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Hasil, P. • Veselá, M. 	authors <ul style="list-style-type: none"> • P. Hasil • M. Veselá 		
	title Non-oscillation of perturbed half-linear differential equations with sums of periodic coefficients	title Non-oscillation of perturbed half-linear differential equations with sums of periodic coefficients		
	publication_date 2015-06-20 00:00:00	publication_date 2015-06-20 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Advances in Difference Equations		
	volume	volume 2015		
	doi 10.1186/s13662-015-0533-4	doi 10.1186/S13662-015-0533-4		
	urls <ul style="list-style-type: none"> • http://link.springer.com/content/pdf/10.1186/s13662-015-0533-4.pdf • http://link.springer.com/article/10.1186/s13662-015-0533-4/fulltext.html • http://link.springer.com/content/pdf/10.1186/s13662-015-0533-4 • http://dx.doi.org/10.1186/s13662-015-0533-4 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/0b2aae3312e9c5b3dd726fdb0716fe30cde6cb57 	DUPPLICATES	106
	id id-7545289185686378720	id id-3075716366133698351		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Hasil, P.• Veselá, M.	authors <ul style="list-style-type: none">• P. Hasil• M. Veselá		
	title Non-oscillation of perturbed half-linear differential equations with sums of periodic coefficients	title Non-oscillation of perturbed half-linear differential equations with sums of periodic coefficients		
	publication_date 2015-06-20 00:00:00	publication_date 2015-06-20 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Advances in Difference Equations		
	volume	volume 2015		
	doi 10.1186/s13662-015-0533-4	doi 10.1186/s13662-015-0533-4		
	urls <ul style="list-style-type: none">• http://link.springer.com/content/pdf/10.1186/s13662-015-0533-4.pdf• http://link.springer.com/article/10.1186/s13662-015-0533-4/fulltext.html• http://link.springer.com/content/pdf/10.1186/s13662-015-0533-4• http://dx.doi.org/10.1186/s13662-015-0533-4	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/c827be1231659856bae842460bb299993d8550e4	DUPPLICATES	107
	id id-7545289185686378720	id id8253693762633117737		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• P. Hasil• M. Veselá	authors <ul style="list-style-type: none">• P. Hasil• M. Veselá	DUPLICATES	108
	title Non-oscillation of perturbed half-linear differential equations with sums of periodic coefficients	title Non-oscillation of perturbed half-linear differential equations with sums of periodic coefficients		
	publication_date 2015-06-20 00:00:00	publication_date 2015-06-20 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Advances in Difference Equations	journal Advances in Difference Equations		
	volume 2015	volume 2015		
	doi 10.1186/S13662-015-0533-4	doi 10.1186/s13662-015-0533-4		
	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/0b2aae3312e9c5b3dd726fdb0716fe30cde6cb57	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/c827be1231659856bae842460bb299993d8550e4		
	id id-3075716366133698351	id id8253693762633117737		
	abstract None	abstract None		

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> • Demidenko, Gennadii • Matveeva, Inessa 	authors	<ul style="list-style-type: none"> • Gennadii Demidenko • Inessa Matveeva 	
	title	Estimates for solutions to a class of time-delay systems of neutral type with periodic coefficients and several delays	title	Estimates for solutions to a class of time-delay systems of neutral type with periodic coefficients and several delays	DUPPLICATES
	publication_date	2015-01-01 00:00:00	publication_date	2015-01-01 00:00:00	109
	source	SupportedSources.CORE	source	SupportedSources.INTERNET_ARCHIVE	
	journal	Electronic journal of qualitative theory of differential equations	journal	University of Szeged	
	volume		volume		
	doi	10.14232/ejqtde.2015.1.83	doi	10.14232/ejqtde.2015.1.83	
	urls	<ul style="list-style-type: none"> • https://core.ac.uk/download/42941987.pdf 	urls	<ul style="list-style-type: none"> • https://web.archive.org/web/20180722142631/http://real.mtak.hu/32241/1/p4183.pdf 	
	id	id568820423922041800	id	id521611528284903321	
	abstract	We consider a class of nonlinear time-delay systems of neutral type with periodic coefficients in linear terms and several delays. We establish conditions under which the zero solution is exponentially stable and obtain estimates characterizing exponential decay of solutions at infinity. The conditions are formulated in terms of differential matrix inequalities. All the values characterizing the decay rate are written out in explicit form	abstract	We consider a class of nonlinear time-delay systems of neutral type with periodic coefficients in linear terms and several delays. We establish conditions under which the zero solution is exponentially stable and obtain estimates characterizing exponential decay of solutions at infinity. The conditions are formulated in terms of differential matrix inequalities. All the values characterizing the decay rate are written out in explicit form.	

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Demidenko, G.• Matveeva, I.	authors <ul style="list-style-type: none">• G. Demidenko• I. Matveeva		
	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients		
	publication_date 2014-01-01 00:00:00	publication_date 2014-10-23 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Siberian Mathematical Journal		
	volume	volume 55		
	doi 10.1134/s0037446614050061	doi 10.1134/S0037446614050061		
	urls <ul style="list-style-type: none">• http://link.springer.com/content/pdf/10.1134/S0037446614050061.pdf• http://link.springer.com/article/10.1134/S0037446614050061/fulltext.html• http://link.springer.com/content/pdf/10.1134/S0037446614050061• http://dx.doi.org/10.1134/s0037446614050061	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/1f2b9d499cb05a78970e48fbca74af962bd145b4	DUPPLICATES	110
	id id3709091888181445725	id id-5116711191017611691		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Demidenko, G.• Matveeva, I.	authors <ul style="list-style-type: none">• G. Demidenko• I. Matveeva		
	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients		
	publication_date 2014-01-01 00:00:00	publication_date 2014-09-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Siberian Mathematical Journal		
	volume	volume 55		
	doi 10.1134/s0037446614050061	doi 10.1134/S0037446614050061		
	urls <ul style="list-style-type: none">• http://link.springer.com/content/pdf/10.1134/S0037446614050061.pdf• http://link.springer.com/article/10.1134/S0037446614050061/fulltext.html• http://link.springer.com/content/pdf/10.1134/S0037446614050061• http://dx.doi.org/10.1134/s0037446614050061	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/e82d2aee71237bd8b64fe7095195d702ea94bbe4	DUPPLICATES	111
	id id3709091888181445725	id id-5513292848026934932		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Demidenko, G. • Matveeva, I. 	authors <ul style="list-style-type: none"> • Gennadii Demidenko • I. I. Matveeva 		
	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients		
	publication_date 2014-01-01 00:00:00	publication_date 2014-10-23 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.OPENALEX		
	journal	journal Siberian Mathematical Journal		
	volume	volume 55		
	doi 10.1134/s0037446614050061	doi 10.1134/s0037446614050061		
	urls <ul style="list-style-type: none"> • http://link.springer.com/content/pdf/10.1134/S0037446614050061.pdf • http://link.springer.com/article/10.1134/S0037446614050061/fulltext.html • http://link.springer.com/content/pdf/10.1134/S0037446614050061 • http://dx.doi.org/10.1134/s0037446614050061 	urls <ul style="list-style-type: none"> • https://openalex.org/W2030379208 • https://doi.org/10.1134/s0037446614050061 	DUPPLICATES	112
	id id3709091888181445725	id id6984520711202546877		
	abstract	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• G. Demidenko• I. Matveeva	authors <ul style="list-style-type: none">• G. Demidenko• I. Matveeva	DUPLICATES	113
	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients		
	publication_date 2014-10-23 00:00:00	publication_date 2014-09-01 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Siberian Mathematical Journal	journal Siberian Mathematical Journal		
	volume 55	volume 55		
	doi 10.1134/S0037446614050061	doi 10.1134/S0037446614050061		
	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/1f2b9d499cb05a78970e48fbca74af962bd145b4• https://www.semanticscholar.org/paper/e82d2aee71237bd8b64fe7095195d702ea94bbe4	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/e82d2aee71237bd8b64fe7095195d702ea94bbe4		
	id id-5116711191017611691	id id-5513292848026934932		
	abstract None	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • G. Demidenko • I. Matveeva 	authors <ul style="list-style-type: none"> • Gennadii Demidenko • I. I. Matveeva 		
	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients		
	publication_date 2014-10-23 00:00:00	publication_date 2014-10-23 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.OPENALEX		
	journal Siberian Mathematical Journal	journal Siberian Mathematical Journal		
	volume 55	volume 55		
	doi 10.1134/S0037446614050061	doi 10.1134/s0037446614050061		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/1f2b9d499cb05a78970e48fbca74af962bd145b4 	urls <ul style="list-style-type: none"> • https://openalex.org/W2030379208 • https://doi.org/10.1134/s0037446614050061 	DUPPLICATES	114
	id id-5116711191017611691	id id6984520711202546877		
	abstract None	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• G. Demidenko• I. Matveeva	authors <ul style="list-style-type: none">• Gennadii Demidenko• I. I. Matveeva		
	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients		
	publication_date 2014-09-01 00:00:00	publication_date 2014-10-23 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.OPENALEX		
	journal Siberian Mathematical Journal	journal Siberian Mathematical Journal		
	volume 55	volume 55		
	doi 10.1134/S0037446614050061	doi 10.1134/s0037446614050061		
	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/e82d2aee71237bd8b64fe7095195d702ea94bbe4	urls <ul style="list-style-type: none">• https://openalex.org/W2030379208• https://doi.org/10.1134/s0037446614050061		
	id id-5513292848026934932	id id6984520711202546877		
	abstract None	abstract		

DUPPLICATES 115

cases	doc_1		doc_2		DUPLICATES 116
	authors	• G. Demidenko	authors	• G. Demidenko	
	title	Systems of differential equations with periodic coefficients	title	Systems of differential equations with periodic coefficients	
	publication_date	2014-03-06 00:00:00	publication_date	2014-01-01 00:00:00	
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR	
	journal	Journal of Applied and Industrial Mathematics	journal	Journal of Applied and Industrial Mathematics	
	volume	8	volume	8	
	doi	10.1134/S1990478914010037	doi	10.1134/S1990478914010037	
	urls	• https://www.semanticscholar.org/paper/faba1d2cc1793f330930d50df746879c29b00651	urls	• https://www.semanticscholar.org/paper/d584c703e2052b5c84be1fe37cf9b452526d20af	
	id	id170576371751227000	id	id-4505568514600775903	
	abstract	None	abstract	None	

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Gennadii Demidenko• I. I. Matveeva	authors <ul style="list-style-type: none">• Demidenko, G.• Matveeva, I.	DUPLICATES	117
	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients	title On estimates of solutions to systems of differential equations of neutral type with periodic coefficients		
	publication_date 2014-10-23 00:00:00	publication_date None		
	source SupportedSources.OPENALEX	source SupportedSources.UNPAYWALL		
	journal Siberian Mathematical Journal	journal Siberian Mathematical Journal		
	volume 55	volume		
	doi 10.1134/s0037446614050061	doi 10.1134/s0037446614050061		
	urls <ul style="list-style-type: none">• https://openalex.org/W2030379208• https://doi.org/10.1134/s0037446614050061	urls <ul style="list-style-type: none">• https://doi.org/10.1134/s0037446614050061		
	id id6984520711202546877	id id-8538614458807985382		
	abstract	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Kozlov, Y.	authors <ul style="list-style-type: none">• Yu. D. Kozlov	DUPLICATES	118
	title On the dichotomy of a system of linear differential equations with conditionally periodic coefficients	title On the dichotomy of a system of linear differential equations with conditionally periodic coefficients		
	publication_date 2013-01-01 00:00:00	publication_date 2013-05-23 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Differential Equations		
	volume	volume 49		
	doi 10.1134/s0012266113030026	doi 10.1134/S0012266113030026		
	urls <ul style="list-style-type: none">• http://link.springer.com/content/pdf/10.1134/S0012266113030026.pdf• http://link.springer.com/article/10.1134/S0012266113030026/fulltext.html• http://link.springer.com/content/pdf/10.1134/S0012266113030026• http://dx.doi.org/10.1134/s0012266113030026	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/05eff2e02d30c7ebfd17ac6c26ccbb9a3d44ebc3		
	id id4460334601959068978	id id-7144005866141307830		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Kozlov, Y.	authors <ul style="list-style-type: none">• Yu. D. Kozlov	DUPLICATES	119
	title On the dichotomy of a system of linear differential equations with conditionally periodic coefficients	title On the dichotomy of a system of linear differential equations with conditionally periodic coefficients		
	publication_date 2013-01-01 00:00:00	publication_date 2013-03-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Differential Equations		
	volume	volume 49		
	doi 10.1134/s0012266113030026	doi 10.1134/S0012266113030026		
	urls <ul style="list-style-type: none">• http://link.springer.com/content/pdf/10.1134/S0012266113030026.pdf• http://link.springer.com/article/10.1134/S0012266113030026/fulltext.html• http://link.springer.com/content/pdf/10.1134/S0012266113030026• http://dx.doi.org/10.1134/s0012266113030026	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/1bd3edd047dc0f93c4a48ff3dbe0462dca8ef0a4		
	id id4460334601959068978	id id2376474888389683221		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Hasil, P. • Veselá, M. 	authors <ul style="list-style-type: none"> • P. Hasil • M. Veselá 	DUPLICATES	120
	title Oscillation of half-linear differential equations with asymptotically almost periodic coefficients	title Oscillation of half-linear differential equations with asymptotically almost periodic coefficients		
	publication_date 2013-04-30 00:00:00	publication_date 2013-04-30 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Advances in Difference Equations		
	volume	volume 2013		
	doi 10.1186/1687-1847-2013-122	doi 10.1186/1687-1847-2013-122		
	urls <ul style="list-style-type: none"> • http://link.springer.com/content/pdf/10.1186/1687-1847-2013-122.pdf • http://link.springer.com/article/10.1186/1687-1847-2013-122/fulltext.html • http://link.springer.com/content/pdf/10.1186/1687-1847-2013-122.pdf • http://dx.doi.org/10.1186/1687-1847-2013-122 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/850575d5e79f593b3996aaec2b05bdb9a270177a 		
	id id-3050381865168319571	id id-1818162791020192631		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors	• Yu. D. Kozlov	authors	• Yu. D. Kozlov
	title	On the dichotomy of a system of linear differential equations with conditionally periodic coefficients	title	On the dichotomy of a system of linear differential equations with conditionally periodic coefficients
	publication_date	2013-05-23 00:00:00	publication_date	2013-03-01 00:00:00
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.SEMANTIC_SCHOLAR
	journal	Differential Equations	journal	Differential Equations
	volume	49	volume	49
	doi	10.1134/S0012266113030026	doi	10.1134/S0012266113030026
	urls	• https://www.semanticscholar.org/paper/05eef2e02d30c7ebfd17ac6c26ccbb9a3d44ebc3	urls	• https://www.semanticscholar.org/paper/1bd3edd047dc0f93c4a48ff3dbe0462dca8ef0a4
	id	id-7144005866141307830	id	id2376474888389683221
	abstract	None	abstract	None

DUPLICATES 121

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Miguel V. S. Frasson• Patricia H. Tacuri	authors <ul style="list-style-type: none">• M. Frasson• P. H. Tacuri		
	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients		
	publication_date 2013-12-01 00:00:00	publication_date 2013-12-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Communications on Pure and Applied Analysis	journal Communications on Pure and Applied Analysis		
	volume	volume 13		
	doi 10.3934/cpaa.2014.13.1105	doi 10.3934/CPAA.2014.13.1105		
	urls <ul style="list-style-type: none">• https://openalex.org/W2141260452• https://doi.org/10.3934/cpaa.2014.13.1105• https://doi.org/10.3934/cpaa.2014.13.1105	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/2469e5d9cd62b442759476fdcf89b8b10be4c9f5		
	id id-321999224060486681	id id-8873316217547168539		
	abstract	We study the asymptotic behaviour of the solutions of a class of linear neutral delay differential equations with discrete delay where the coefficients of the non neutral part are periodic functions which are rational multiples of all time delays. We show that this technique is applicable to a broader class where the coefficients of the neutral part are periodic functions as well.	DUPPLICATES	122

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Miguel V. S. Frasson • Patricia H. Tacuri 	authors <ul style="list-style-type: none"> • Miguel V. S. Frasson • Patricia H. Tacuri 		
	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients		
	publication_date 2013-12-01 00:00:00	publication_date 2013-01-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.INTERNET_ARCHIVE		
	journal Communications on Pure and Applied Analysis	journal American Institute of Mathematical Sciences (AIMS)		
	volume	volume		
	doi 10.3934/cpaa.2014.13.1105	doi 10.3934/cpaa.2014.13.1105		
	urls <ul style="list-style-type: none"> • https://openalex.org/W2141260452 • https://doi.org/10.3934/cpaa.2014.13.1105 • https://doi.org/10.3934/cpaa.2014.13.1105 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170810103809/http://conteudo.icmc.usp.br/pessoas/frasson/artigos/edf-period.pdf 	DUPPLICATES	123
	id id-321999224060486681	id id-5134692271522829436		
	abstract	abstract We study the asymptotic behaviour of the solutions of a class of linear neutral delay differential equations (NDDE) with discrete delay where the coefficients of the non neutral part are periodic functions which are rational multiples of all time delays. We show that this technique is applicable to a broader class where the coefficients of the neutral part are periodic functions as well.		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Miguel V. S. Frasson • Patricia H. Tacuri 	authors <ul style="list-style-type: none"> • V. S. Frasson, M. • ,Departamento de MatemÁtica Aplicada e EstatÁstica, Instituto de CiÃncias MatemÁticas e de ComputaÃ§Ã£o, Universidade de SÃ£o Paulo -- Campus de SÃ£o Carlos, Caixa Postal 668, 13560-970 SÃ£o Carlos, SP • H. Tacuri, P. 	DUPLICATES	124
	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients		
	publication_date 2013-12-01 00:00:00	publication_date None		
	source SupportedSources.OPENALEX	source SupportedSources.UNPAYWALL		
	journal Communications on Pure and Applied Analysis	journal Communications on Pure & Applied Analysis		
	volume	volume		
	doi 10.3934/cpaa.2014.13.1105	doi 10.3934/cpaa.2014.13.1105		
	urls <ul style="list-style-type: none"> • https://openalex.org/W2141260452 • https://doi.org/10.3934/cpaa.2014.13.1105 • https://doi.org/10.3934/cpaa.2014.13.1105 	urls <ul style="list-style-type: none"> • https://doi.org/10.3934/cpaa.2014.13.1105 		
	id id-321999224060486681	id id-374747402013593780		
	abstract	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • M. Frasson • P. H. Tacuri 	authors <ul style="list-style-type: none"> • Miguel V. S. Frasson • Patricia H. Tacuri 		
	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients		
	publication_date 2013-12-01 00:00:00	publication_date 2013-01-01 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal Communications on Pure and Applied Analysis	journal American Institute of Mathematical Sciences (AIMS)		
	volume 13	volume		
	doi 10.3934/CPAA.2014.13.1105	doi 10.3934/cpaa.2014.13.1105		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/2469e5d9cd62b442759476fdcf89b8b10be4c9f5 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170810103809/http://conteudo.icmc.usp.br/pessoas/frasson/artigos/edf-period.pdf 		
	id id-8873316217547168539	id id-5134692271522829436		
	abstract <p>We study the asymptotic behaviour of the solutions of a class of linear neutral delay differential equations with discrete delay where the coefficients of the non neutral part are periodic functions which are rational multiples of all time delays. We show that this technique is applicable to a broader class where the coefficients of the neutral part are periodic functions as well.</p>	abstract <p>We study the asymptotic behaviour of the solutions of a class of linear neutral delay differential equations (NDDE) with discrete delay where the coefficients of the non neutral part are periodic functions which are rational multiples of all time delays. We show that this technique is applicable to a broader class where the coefficients of the neutral part are periodic functions as well.</p>	DUPPLICATES	125

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • M. Frasson • P. H. Tacuri 	<ul style="list-style-type: none"> • V. S. Frasson, M. • ,Departamento de MatemÁtica Aplicada e EstatÁstica, Instituto de CiÃncias MatemÁticas e de ComputaÃ§Ã£o, Universidade de SÃ£o Paulo -- Campus de SÃ£o Carlos, Caixa Postal 668, 13560-970 SÃ£o Carlos, SP • H. Tacuri, P. 	
	title	Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients		
	publication_date	2013-12-01 00:00:00		
	source	SupportedSources.SEMANTIC_SCHOLAR		
	journal	Communications on Pure and Applied Analysis		
	volume	13		
	doi	10.3934/CPAA.2014.13.1105		
	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/2469e5d9cd62b442759476fdcf89b8b10be4c9f5 		
	id	id-8873316217547168539		
abstract	We study the asymptotic behaviour of the solutions of a class of linear neutral delay differential equations with discrete delay where the coefficients of the non neutral part are periodic functions which are rational multiples of all time delays. We show that this technique is applicable to a broader class where the coefficients of the neutral part are periodic functions as well.			

DUPLICATES 126

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Miguel V. S. Frasson • Patricia H. Tacuri 	authors <ul style="list-style-type: none"> • V. S. Frasson, M. • ,Departamento de MatemÁtica Aplicada e EstatÁstica, Instituto de CiÃncias MatemÁticas e de ComputaÃ§Ã£o, Universidade de SÃ£o Paulo -- Campus de SÃ£o Carlos, Caixa Postal 668, 13560-970 SÃ£o Carlos, SP • H. Tacuri, P. 		
	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients	title Asymptotic behaviour of solutions to linear neutral delay differential equations with periodic coefficients		
	publication_date 2013-01-01 00:00:00	publication_date None	DUPPLICATES	127
	source SupportedSources.INTERNET_ARCHIVE	source SupportedSources.UNPAYWALL		
	journal American Institute of Mathematical Sciences (AIMS)	journal Communications on Pure & Applied Analysis		
	volume	volume		
	doi 10.3934/cpaa.2014.13.1105	doi 10.3934/cpaa.2014.13.1105		
	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170810103809/http://conteudo.icmc.usp.br/pessoas/frasson/artigos/edf-period.pdf 	urls <ul style="list-style-type: none"> • https://doi.org/10.3934/cpaa.2014.13.1105 		
	id id-5134692271522829436	id id-374747402013593780		
	abstract We study the asymptotic behaviour of the solutions of a class of linear neutral delay differential equations (NDDE) with discrete delay where the coefficients of the non neutral part are periodic functions which are rational multiples of all time delays. We show that this technique is applicable to a broader class where the coefficients of the neutral part are periodic functions as well.	abstract		

	doc_1	doc_2	decision	id
cases	authors	• Alexandre Fischer		
	title	Almost periodic solutions with a prescribed spectrum of linear and quasilinear differential equations with almost periodic coefficients and constant time lag (Neutral differential equations)		
	publication_date	2012-01-01 00:00:00		
	source	SupportedSources.INTERNET_ARCHIVE		
	journal	Institute of Mathematics, Czech Academy of Sciences		
	volume			
	doi	10.21136/mb.2012.142896		
	urls	• https://web.archive.org/web/20200309191927/https://dml.cz/bitstream/handle/10338.dmlcz/142896/MathBohem_137-2012-3_4.pdf		
	id	id-3752185659734208413		
	abstract			

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Alexandr Fischer	authors <ul style="list-style-type: none">• Fischer, A.		
	title Almost periodic solutions with a prescribed spectrum of linear and quasilinear differential equations with almost periodic coefficients and constant time lag (Neutral differential equations)	title Almost periodic solutions with a prescribed spectrum of linear and quasilinear differential equations with almost periodic coefficients and constant time lag (Neutral differential equations)		
	publication_date 2012-01-01 00:00:00	publication_date None		
	source SupportedSources.INTERNET_ARCHIVE	source SupportedSources.UNPAYWALL		
	journal Institute of Mathematics, Czech Academy of Sciences	journal Mathematica Bohemica		
	volume	volume		
	doi 10.21136/mb.2012.142896	doi 10.21136/mb.2012.142896		
	urls <ul style="list-style-type: none">• https://web.archive.org/web/20200309191927/https://dml.cz/bitstream/handle/10338.dmlcz/142896/MathBohem_137-2012-3_4.pdf	urls <ul style="list-style-type: none">• https://doi.org/10.21136/mb.2012.142896		
	id id-3752185659734208413	id id-5567177576727128574		
	abstract	abstract		

DUPLICATES

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	doc_1	doc_2	decision	id
cases	authors	• Alexandr Fischer		
	title	Almost periodic solutions with a prescribed spectrum of linear and quasilinear differential equations with almost periodic coefficients and constant time lag (Neutral differential equations)		
	publication_date	2012-01-01 00:00:00		
	source	SupportedSources.INTERNET_ARCHIVE		
	journal	Institute of Mathematics, Czech Academy of Sciences		
	volume			
	doi	10.21136/mb.2012.142896		
	urls	• https://web.archive.org/web/20200309191927/https://dml.cz/bitstream/handle/10338.dmlcz/142896/MathBohem_137-2012-3_4.pdf		
	id	id-3752185659734208413		
	abstract			
			DUPPLICATES	130

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> • Baskakov, A. • Kobychev, K. 	authors	<ul style="list-style-type: none"> • A. Baskakov • K. S. Kobychev 	
	title	Estimates for the embedding operator of a sobolev space of periodic functions and for the solutions of differential equations with periodic coefficients	title	Estimates for the embedding operator of a sobolev space of periodic functions and for the solutions of differential equations with periodic coefficients	
	publication_date	2011-01-01 00:00:00	publication_date	2011-06-16 00:00:00	
	source	SupportedSources.CROSSREF	source	SupportedSources.SEMANTIC_SCHOLAR	
	journal		journal	Differential Equations	
	volume		volume	47	
	doi	10.1134/s0012266111050016	doi	10.1134/S0012266111050016	
	urls	<ul style="list-style-type: none"> • http://link.springer.com/content/pdf/10.1134/S0012266111050016.pdf • http://link.springer.com/article/10.1134/S0012266111050016/fulltext.html • http://link.springer.com/content/pdf/10.1134/S0012266111050016 • http://dx.doi.org/10.1134/s0012266111050016 	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/22ab97db37c74a89a46be4be5370282214ac9d4e 	
	id	id1397753646915952562	id	id-8706699407157360623	
	abstract		abstract	None	

DUPPLICATES 131

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Antonevich, A.• Lo, S.	authors <ul style="list-style-type: none">• A. Antonevich• S. A. Lo		
	title Semi-Fredholm problems on periodic solutions of functional-differential equations of neutral type	title Semi-Fredholm problems on periodic solutions of functional-differential equations of neutral type		
	publication_date 2011-01-01 00:00:00	publication_date 2011-12-29 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Differential Equations		
	volume	volume 47		
	doi 10.1134/s0012266111100016	doi 10.1134/S0012266111100016		
	urls <ul style="list-style-type: none">• http://link.springer.com/content/pdf/10.1134/S0012266111100016.pdf• http://link.springer.com/article/10.1134/S0012266111100016/fulltext.html• http://link.springer.com/content/pdf/10.1134/S0012266111100016• http://dx.doi.org/10.1134/s0012266111100016	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/fc0eaa92bf232751e658d2bc46d10a61cf7dcf3	DUPPLICATES	132
	id id-436689146952257311	id id-6910357448051255275		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Chow S. N. • Jan Sieber • Robert Szalai 	authors <ul style="list-style-type: none"> • Jan Sieber • Robert Szalai 		
	title Characteristic matrices for linear periodic delay differential equations	title Characteristic matrices for linear periodic delay differential equations		
	publication_date 2011-01-01 00:00:00	publication_date 2010-05-25 09:54:32+00:00		
	source SupportedSources.CORE	source SupportedSources.ARXIV		
	journal None	journal SIAM Jornal of Appl. Dyn. Sys. 10, pp. 129-147, 2011		
	volume	volume		
	doi 10.1137/100796455	doi 10.1137/100796455		
	urls <ul style="list-style-type: none"> • https://core.ac.uk/download/29578439.pdf 	urls <ul style="list-style-type: none"> • http://arxiv.org/pdf/1005.4522v3 • http://dx.doi.org/10.1137/100796455 • http://arxiv.org/abs/1005.4522v3 • http://arxiv.org/pdf/1005.4522v3 	DUPPLICATES	133
	id id4802389808756218263	id id6388705744091541789		
	abstract Szalai et al. (SIAM J. on Sci. Comp. 28(4), 2006) gave a general construction for characteristic matrices for systems of linear delay-differential equations with periodic coefficients. First, we show that matrices constructed in this way can have a discrete set of poles in the complex plane, which may possibly obstruct their use when determining the stability of the linear system. Then we modify and generalize the original construction such that the poles get pushed into a small neighborhood of the origin of the complex plane. Comment: 17 pages, 1 figur	abstract Szalai et al. (SIAM J. on Sci. Comp. 28(4), 2006) gave a general construction for characteristic matrices for systems of linear delay-differential equations with periodic coefficients. First, we show that matrices constructed in this way can have a discrete set of poles in the complex plane, which may possibly obstruct their use when determining the stability of the linear system. Then we modify and generalize the original construction such that the poles get pushed into a small neighborhood of the origin of the complex plane.		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Raffoul, Y. 	authors <ul style="list-style-type: none"> • Youssef Raffoul 		
	title Positive periodic solutions in neutral nonlinear differential equations	title Positive periodic solutions in neutral nonlinear differential equations		
	publication_date 2007-01-01 00:00:00	publication_date 2007-01-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.INTERNET_ARCHIVE		
	journal	journal University of Szeged		
	volume	volume		
	doi 10.14232/ejqtde.2007.1.16	doi 10.14232/ejqtde.2007.1.16		
	urls <ul style="list-style-type: none"> • http://www.math.u-szeged.hu/ejqtde/p276.pdf • http://dx.doi.org/10.14232/ejqtde.2007.1.16 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170922022828/http://real.mtak.hu/22899/1/p276.pdf 	DUPPLICATES	134
	id id-8505845948373385038	id id6355403466001560781		
	abstract	abstract We use Krasnoselskii's fixed point theorem to show that the nonlinear neutral differential equation with delay has a positive periodic solution. An example will be provided as an application to our theorems.		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • M Weedermann 	authors <ul style="list-style-type: none"> • M. Weedermann 		
	title Hopf bifurcation calculations for scalar neutral delay differential equations	title Hopf bifurcation calculations for scalar neutral delay differential equations		
	publication_date 2006-09-01 00:00:00	publication_date 2006-09-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Nonlinearity	journal Nonlinearity		
	volume 19	volume 19		
	doi 10.1088/0951-7715/19/9/005	doi 10.1088/0951-7715/19/9/005		
	urls <ul style="list-style-type: none"> • https://openalex.org/W1985957601 • https://doi.org/10.1088/0951-7715/19/9/005 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/2f7c7feb5723825570e2a3550b6d8300654939d6 		
	id id253918150052874515	id id2937665357916603238		
	abstract	abstract <p>Hopf bifurcations in scalar neutral delay-differential equations are analysed for $a < 1$. We have derived explicit conditions for a Hopf bifurcation to occur. Using centre manifold reduction and normal form theory the stability coefficient of the periodic orbit on the centre manifold is determined explicitly in terms of the coefficients in the original equation. The results are illustrated in two standard examples, one with a Wright-type nonlinearity and one with a cubic nonlinearity.</p>	DUPPLICATES	135

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • LIU, Y. • GE, W. • GUI, Z. 	authors <ul style="list-style-type: none"> • Yuji Liu • W. Ge • Z. Gui 		
	title THREE POSITIVE PERIODIC SOLUTIONS OF NONLINEAR DIFFERENTIAL EQUATIONS WITH PERIODIC COEFFICIENTS	title THREE POSITIVE PERIODIC SOLUTIONS OF NONLINEAR DIFFERENTIAL EQUATIONS WITH PERIODIC COEFFICIENTS		
	publication_date 2005-01-01 00:00:00	publication_date 2005-04-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Analysis and Applications		
	volume	volume 03		
	doi 10.1142/s0219530505000546	doi 10.1142/S0219530505000546		
	urls <ul style="list-style-type: none"> • https://www.worldscientific.com/doi/pdf/10.1142/S0219530505000546 • http://dx.doi.org/10.1142/s0219530505000546 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/d5b31235aad659ed10088f997a491515a82f9e70 		
	id id85401240071020634	id id-8440973544137064895		
	abstract	abstract <p>We establish the existence of at least three positive periodic solutions to the second order differential equation with periodic coefficients $\begin{aligned} & -p(t)x'(t) + q(t)x(t) = f(t, x(t)), \quad t \in R, \\ & f(t+T, x) = f(t, x) \text{ for } (t, x) \in R \times R \end{aligned}$ where f is continuous with $f(t+T, x) = f(t, x)$ for $(t, x) \in R \times R$ and $T > 0$, p, q are continuous and T-periodic with $p > 0$ and $q \neq 0$. We accomplish this by making growth assumptions on f, which can apply to many more cases than those discussed in recent works. An example to illustrate the main result is given.</p>	DUPPLICATES	136

	doc_1	doc_2	decision	id
cases	authors • Srzednicki, R.	authors • R. Srzednicki		
	title On Periodic Solutions of Planar Polynomial Differential Equations with Periodic Coefficients	title On Periodic Solutions of Planar Polynomial Differential Equations with Periodic Coefficients		
	publication_date 1994-01-01 00:00:00	publication_date 1994-11-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Journal of Differential Equations		
	volume	volume 114		
	doi 10.1006/jdeq.1994.1141	doi 10.1006/JDEQ.1994.1141		
	urls <ul style="list-style-type: none"> • https://api.elsevier.com/content/article/PII:S0022039684711417?httpAccept=text/xml • https://api.elsevier.com/content/article/PII:S0022039684711417?httpAccept=text/plain • http://dx.doi.org/10.1006/jdeq.1994.1141 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/a4a021e1a19e59675a356ce7b7bed8c90baaf709 	DUPPLICATES	137
	id id-8584579333791898389	id id6471081221143232203		
	abstract	abstract Abstract We consider the planar equation $z' = \sum_{k=0}^N a_k(t) z^k$, where a_k, b_k are T -periodic complex-valued continuous functions, equal to 0 for almost all $k, l \in \mathbb{N}$. We present sufficient conditions imposed on a_k, b_k which guarantee the existence of its T -periodic solutions and, in the case $a_0, b_0 = 0$, the conditions for the existence of nonzero ones. We use a method which computes the fixed point index of the Poincaré-Andronov operator in isolated sets of fixed points generated by so-called periodic blocks. The method is based on the Lefschetz fixed point theorem and the topological principle Of Wazewski.		

	doc_1	doc_2	decision	id		
cases	authors	<ul style="list-style-type: none"> Huang, Q. Chen, S. 	authors	<ul style="list-style-type: none"> Qing Huang Shao Rui Chen 		
	title	Oscillation of neutral differential equations with periodic coefficients	title	Oscillation of neutral differential equations with periodic coefficients		
	publication_date	1990-01-01 00:00:00	publication_date	1990-04-01 00:00:00		
	source	SupportedSources.CROSSREF	source	SupportedSources.OPENALEX		
	journal		journal	Proceedings of the American Mathematical Society		
	volume		volume	110		
	doi	10.1090/s0002-9939-1990-1075188-6	doi	10.1090/s0002-9939-1990-1075188-6		
	urls	<ul style="list-style-type: none"> http://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf http://dx.doi.org/10.1090/s0002-9939-1990-1075188-6 	urls	<ul style="list-style-type: none"> https://openalex.org/W1996322423 https://doi.org/10.1090/s0002-9939-1990-1075188-6 https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	DUPPLICATES	138
	id	id233998356981636484	id	id7288436618115398865		
	abstract		abstract			

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> Huang, Q. Chen, S. 	<ul style="list-style-type: none"> Qing Huang S. Chen 	DUPLICATES 139
	title	Oscillation of neutral differential equations with periodic coefficients	Oscillation of neutral differential equations with periodic coefficients	
	publication_date	1990-01-01 00:00:00	1990-04-01 00:00:00	
	source	SupportedSources.CROSSREF	SupportedSources.SEMANTIC_SCHOLAR	
	journal			
	volume		110	
	doi	10.1090/s0002-9939-1990-1075188-6	10.1090/S0002-9939-1990-1075188-6	
	urls	<ul style="list-style-type: none"> http://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf http://dx.doi.org/10.1090/s0002-9939-1990-1075188-6 	<ul style="list-style-type: none"> https://www.semanticscholar.org/paper/c8419b6fc95fc4cbd96b62fd720d9b037fc573b3 	
	id	id233998356981636484	id-8356078989371677773	
	abstract		We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation $n [x(t) p(x)(t r)] + L q_i(t)x(t ir) = 0$, $i=1, \dots, n$ where $0 < 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Huang, Q. • Chen, S. 	authors <ul style="list-style-type: none"> • Qing Guang Huang • Shao Zhu Chen 		
	title Oscillation of neutral differential equations with periodic coefficients	title Oscillation of neutral differential equations with periodic coefficients		
	publication_date 1990-01-01 00:00:00	publication_date 1990-04-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.INTERNET_ARCHIVE		
	journal	journal American Mathematical Society (AMS)		
	volume	volume		
	doi 10.1090/s0002-9939-1990-1075188-6	doi 10.1090/s0002-9939-1990-1075188-6		
	urls <ul style="list-style-type: none"> • http://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf • http://dx.doi.org/10.1090/s0002-9939-1990-1075188-6 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	DUPPLICATES	140
	id id233998356981636484	id id8276101076510162791		
	abstract	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Huang, Q. • Chen, S. 	authors <ul style="list-style-type: none"> • Huang, Q. • Chen, S. 		
	title Oscillation of neutral differential equations with periodic coefficients	title Oscillation of Neutral Differential Equations with Periodic Coefficients		
	publication_date 1990-01-01 00:00:00	publication_date None		
	source SupportedSources.CROSSREF	source SupportedSources.UNPAYWALL		
	journal	journal Proceedings of the American Mathematical Society		
	volume	volume		
	doi 10.1090/s0002-9939-1990-1075188-6	doi 10.2307/2047748		
	urls <ul style="list-style-type: none"> • http://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf • http://dx.doi.org/10.1090/s0002-9939-1990-1075188-6 	urls <ul style="list-style-type: none"> • https://doi.org/10.2307/2047748 		
	id id233998356981636484	id id1766747969566173672		
	abstract	abstract		

NOT DUPLICATES 141

	doc_1	doc_2	decision	id	
cases	authors	• Qing Huang • Shao Rui Chen	authors	• Qing Huang • S. Chen	
	title	Oscillation of neutral differential equations with periodic coefficients	title	Oscillation of neutral differential equations with periodic coefficients	
	publication_date	1990-04-01 00:00:00	publication_date	1990-04-01 00:00:00	
	source	SupportedSources.OPENALEX	source	SupportedSources.SEMANTIC_SCHOLAR	
	journal	Proceedings of the American Mathematical Society	journal		
	volume	110	volume	110	
	doi	10.1090/s0002-9939-1990-1075188-6	doi	10.1090/S0002-9939-1990-1075188-6	
	urls	<ul style="list-style-type: none"> • https://openalex.org/W1996322423 • https://doi.org/10.1090/s0002-9939-1990-1075188-6 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/c8419b6fc95fc4cbd96b62fd720d9b037fc573b3 	
	id	id7288436618115398865	id	id-8356078989371677773	
	abstract		abstract	We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation $n [x(t) p(x)(t r)] + L q_i(t)x(t ir) = 0$, $i=1, \dots, n$ where $0 < 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	

DUPLICATES 142

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Qing Huang• Shao Rui Chen	authors <ul style="list-style-type: none">• Qing Guang Huang• Shao Zhu Chen		
	title Oscillation of neutral differential equations with periodic coefficients	title Oscillation of neutral differential equations with periodic coefficients		
	publication_date 1990-04-01 00:00:00	publication_date 1990-04-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.INTERNET_ARCHIVE		
	journal Proceedings of the American Mathematical Society	journal American Mathematical Society (AMS)		
	volume 110	volume		
	doi 10.1090/s0002-9939-1990-1075188-6	doi 10.1090/s0002-9939-1990-1075188-6		
	urls <ul style="list-style-type: none">• https://openalex.org/W1996322423• https://doi.org/10.1090/s0002-9939-1990-1075188-6• https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf	urls <ul style="list-style-type: none">• https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf	DUPPLICATES	143
	id id7288436618115398865	id id8276101076510162791		
	abstract	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous τ -periodic functions.		

	doc_1	doc_2	decision	id
cases	authors • Qing Huang • Shao Rui Chen	authors • Huang, Q. • Chen, S.	DUPLICATES	144
	title Oscillation of neutral differential equations with periodic coefficients	title Oscillation of neutral differential equations with periodic coefficients		
	publication_date 1990-04-01 00:00:00	publication_date None		
	source SupportedSources.OPENALEX	source SupportedSources.UNPAYWALL		
	journal Proceedings of the American Mathematical Society	journal Proceedings of the American Mathematical Society		
	volume 110	volume None		
	doi 10.1090/s0002-9939-1990-1075188-6	doi 10.1090/s0002-9939-1990-1075188-6		
	urls • https://openalex.org/W1996322423 • https://doi.org/10.1090/s0002-9939-1990-1075188-6 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf	urls • https://doi.org/10.1090/s0002-9939-1990-1075188-6		
	id id7288436618115398865	id id4930781702551856635		
	abstract	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Qingguang Huang • Shaozhu Chen 	authors <ul style="list-style-type: none"> • Qingguang Huang • Shaozhu Chen 		
	title Oscillation of Neutral Differential Equations with Periodic Coefficients	title Oscillation of Neutral Differential Equations with Periodic Coefficients		
	publication_date 1990-12-01 00:00:00	publication_date 1990-01-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.INTERNET_ARCHIVE		
	journal Proceedings of the American Mathematical Society	journal JSTOR		
	volume 110	volume		
	doi 10.2307/2047748	doi 10.2307/2047748		
	urls <ul style="list-style-type: none"> • https://openalex.org/W4241567090 • https://doi.org/10.2307/2047748 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	DUPPLICATES	145
	id id7336688672901455324	id id7323005350579396027		
	abstract	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous τ -periodic functions.		

	doc_1	doc_2	decision	id
cases	authors • Qingguang Huang • Shaozhu Chen	authors • Huang, Q. • Chen, S.	DUPLICATES	146
	title Oscillation of Neutral Differential Equations with Periodic Coefficients	title Oscillation of Neutral Differential Equations with Periodic Coefficients		
	publication_date 1990-12-01 00:00:00	publication_date None		
	source SupportedSources.OPENALEX	source SupportedSources.UNPAYWALL		
	journal Proceedings of the American Mathematical Society	journal Proceedings of the American Mathematical Society		
	volume 110	volume None		
	doi 10.2307/2047748	doi 10.2307/2047748		
	urls • https://openalex.org/W4241567090 • https://doi.org/10.2307/2047748 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf	urls • https://doi.org/10.2307/2047748		
	id id7336688672901455324	id id1766747969566173672		
	abstract	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Qing Huang • S. Chen 	authors <ul style="list-style-type: none"> • Qing Guang Huang • Shao Zhu Chen 		
	title Oscillation of neutral differential equations with periodic coefficients	title Oscillation of neutral differential equations with periodic coefficients		
	publication_date 1990-04-01 00:00:00	publication_date 1990-04-01 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal	journal American Mathematical Society (AMS)		
	volume 110	volume		
	doi 10.1090/S0002-9939-1990-1075188-6	doi 10.1090/s0002-9939-1990-1075188-6		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/c8419b6fc95fc4cbd96b62fd720d9b037fc573b3 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	DUPPLICATES	147
	id id-8356078989371677773	id id8276101076510162791		
	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation $n [x(t) p(x)(t r)] + L q_i(t)x(t ir) = 0$, $i=1, \dots, n$ where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.		

	doc_1	doc_2	decision	id	
cases	authors	• Qing Huang • S. Chen	authors	• Huang, Q. • Chen, S.	
	title	Oscillation of neutral differential equations with periodic coefficients	title	Oscillation of neutral differential equations with periodic coefficients	
	publication_date	1990-04-01 00:00:00	publication_date	None	
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.UNPAYWALL	
	journal		journal	Proceedings of the American Mathematical Society	
	volume	110	volume		
	doi	10.1090/S0002-9939-1990-1075188-6	doi	10.1090/s0002-9939-1990-1075188-6	
	urls	• https://www.semanticscholar.org/paper/c8419b6fc95fc4cbd96b62fd720d9b037fc573b3	urls	• https://doi.org/10.1090/s0002-9939-1990-1075188-6	
	id	id-8356078989371677773	id	id4930781702551856635	
	abstract	We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation $n [x(t) p(x)(t r)] + L q_i(t)x(t ir) = 0$, $i=1, \dots, n$ where $0 < p(x) < \infty$ and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	abstract		

DUPLICATES 148

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Qingguang Huang• Shaozhu Chen	authors <ul style="list-style-type: none">• Qing Guang Huang• Shao Zhu Chen	NOT DUPLICATES	149
	title Oscillation of Neutral Differential Equations with Periodic Coefficients	title Oscillation of neutral differential equations with periodic coefficients		
	publication_date 1990-01-01 00:00:00	publication_date 1990-04-01 00:00:00		
	source SupportedSources.INTERNET_ARCHIVE	source SupportedSources.INTERNET_ARCHIVE		
	journal JSTOR	journal American Mathematical Society (AMS)		
	volume	volume		
	doi 10.2307/2047748	doi 10.1090/s0002-9939-1990-1075188-6		
	urls <ul style="list-style-type: none">• https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf	urls <ul style="list-style-type: none">• https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf		
	id id7323005350579396027	id id8276101076510162791		
	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.		

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> • Qingguang Huang • Shaozhu Chen 	authors	<ul style="list-style-type: none"> • Huang, Q. • Chen, S. 	
	title	Oscillation of Neutral Differential Equations with Periodic Coefficients	title	Oscillation of Neutral Differential Equations with Periodic Coefficients	
	publication_date	1990-01-01 00:00:00	publication_date	None	
	source	SupportedSources.INTERNET_ARCHIVE	source	SupportedSources.UNPAYWALL	
	journal	JSTOR	journal	Proceedings of the American Mathematical Society	
	volume		volume		
	doi	10.2307/2047748	doi	10.2307/2047748	
	urls	<ul style="list-style-type: none"> • https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	urls	<ul style="list-style-type: none"> • https://doi.org/10.2307/2047748 	
	id	id7323005350579396027	id	id1766747969566173672	
	abstract	We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	abstract		DUPPLICATES 150

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> • Qing Guang Huang • Shao Zhu Chen 	authors	<ul style="list-style-type: none"> • Huang, Q. • Chen, S. 	DUPLICATES 151
	title	Oscillation of neutral differential equations with periodic coefficients	title	Oscillation of neutral differential equations with periodic coefficients	
	publication_date	1990-04-01 00:00:00	publication_date	None	
	source	SupportedSources.INTERNET_ARCHIVE	source	SupportedSources.UNPAYWALL	
	journal	American Mathematical Society (AMS)	journal	Proceedings of the American Mathematical Society	
	volume		volume		
	doi	10.1090/s0002-9939-1990-1075188-6	doi	10.1090/s0002-9939-1990-1075188-6	
	urls	<ul style="list-style-type: none"> • https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	urls	<ul style="list-style-type: none"> • https://doi.org/10.1090/s0002-9939-1990-1075188-6 	
	id	id8276101076510162791	id	id4930781702551856635	
	abstract	We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, r$, are continuous r -periodic functions.	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Richard P. Mied	authors <ul style="list-style-type: none">• R. Mied		
	title The occurrence of parametric instabilities in finite-amplitude internal gravity waves	title The occurrence of parametric instabilities in finite-amplitude internal gravity waves		
	publication_date 1976-12-22 00:00:00	publication_date 1976-12-22 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Journal of Fluid Mechanics	journal Journal of Fluid Mechanics		
	volume 78	volume 78		
	doi 10.1017/S0022112076002735	doi 10.1017/S0022112076002735		
	urls <ul style="list-style-type: none">• https://openalex.org/W2124405355• https://doi.org/10.1017/s0022112076002735	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/bc839960fcd0513dd83daab89991530ee45a8e46		
	id id-1892660579354795081	id id-6225984113345638183		
	abstract	abstract <p>The parametric instability of a plane internal gravity wave is considered. When the two-dimensional equations of vorticity and mass conservation are linearized in the disturbance quantities, partial differential equations with periodic coefficients result. Substitution of a perturbation of the form dictated by Floquet theory into these equations yields compatibility conditions which, when evaluated numerically, give the curves of neutral stability and constant disturbance growth rate. These results reveal that, for an internal wave of even infinitesimal amplitude, disturbance waves can begin to grow in amplitude. Moreover, these parametric instabilities are shown to reduce to the classical case of the nonlinear resonant interaction in the limit of vanishingly small basic-state amplitude. The fact that these unstable disturbances can exist for an internal wave of any amplitude suggests that this phenomenon may be an important mechanism for extracting energy from an internal gravity wave.</p>	DUPPLICATES	152

	doc_1	doc_2	decision	id
cases	authors • J. Reece Roth	authors • J. R. Roth		
	title Periodic Small-Amplitude Solutions to Volterra's Problem of Two Conflicting Populations and Their Application to the Plasma Continuity Equations	title PERIODIC SMALL-AMPLITUDE SOLUTIONS TO VOLTERRA'S PROBLEM OF TWO CONFLICTING POPULATIONS AND THEIR APPLICATION TO THE PLASMA CONTINUITY EQUATIONS.		
	publication_date 1969-08-01 00:00:00	publication_date 1969-08-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Journal of Mathematical Physics	journal Journal of Mathematical Physics		
	volume	volume 10		
	doi 10.1063/1.1664982	doi 10.1063/1.1664982		
	urls • https://openalex.org/W2097805495 • https://doi.org/10.1063/1.1664982	urls • https://www.semanticscholar.org/paper/c79ac28630ae95d59f82e1277432ed828a56ec88		
	id id8573809544402973988	id id5449388516188214976		
	abstract	abstract The coupled set of first-order nonlinear differential equations describing a generalized form of Volterra's problem of two conflicting populations $\dot{x} = C_0 + C_1x + C_2y + C_3xy + C_4x^2 + C_5y^2, \dot{y} = A_0 + A_1x + A_2y + A_3xy + A_4x^2 + A_5y^2$ are solved by an approximate method which gives $y(t)$ for the particular case in which the variables x and y vary periodically, the coefficients C_i and A_i are real, and the peak-to-peak amplitude of x is small compared with the mean value of x . The peak-to-peak amplitude of y , however, is not necessarily small compared with the mean value of y . When these conditions are satisfied, the functional form of $y(t)$ is approximated by Jacobian elliptic functions. The solutions obtained in this analysis are relevant to special cases of the classical problem of predator and prey, and also to certain low-frequency oscillations in partially ionized plasmas that arise from periodic solutions to the neutral and charged-particle continuity equations.		DUPPLICATES 153

	doc_1	doc_2	decision	id																																								
cases	<table border="1"> <tr><td>authors</td><td> <ul style="list-style-type: none"> • Chester E. Grosch • Harold Salwen </td></tr> <tr><td>title</td><td>The stability of steady and time-dependent plane Poiseuille flow</td></tr> <tr><td>publication_date</td><td>1968-10-16 00:00:00</td></tr> <tr><td>source</td><td>SupportedSources.OPENALEX</td></tr> <tr><td>journal</td><td>Journal of Fluid Mechanics</td></tr> <tr><td>volume</td><td>34</td></tr> <tr><td>doi</td><td>10.1017/S0022112068001837</td></tr> <tr><td>urls</td><td> <ul style="list-style-type: none"> • https://openalex.org/W2098607650 • https://doi.org/10.1017/s0022112068001837 </td></tr> <tr><td>id</td><td>id6829638268378747291</td></tr> <tr><td>abstract</td><td></td></tr> </table>	authors	<ul style="list-style-type: none"> • Chester E. Grosch • Harold Salwen 	title	The stability of steady and time-dependent plane Poiseuille flow	publication_date	1968-10-16 00:00:00	source	SupportedSources.OPENALEX	journal	Journal of Fluid Mechanics	volume	34	doi	10.1017/S0022112068001837	urls	<ul style="list-style-type: none"> • https://openalex.org/W2098607650 • https://doi.org/10.1017/s0022112068001837 	id	id6829638268378747291	abstract		<table border="1"> <tr><td>authors</td><td> <ul style="list-style-type: none"> • C. Grosch • H. Salwen </td></tr> <tr><td>title</td><td>The stability of steady and time-dependent plane Poiseuille flow</td></tr> <tr><td>publication_date</td><td>1968-10-16 00:00:00</td></tr> <tr><td>source</td><td>SupportedSources.SEMANTIC_SCHOLAR</td></tr> <tr><td>journal</td><td>Journal of Fluid Mechanics</td></tr> <tr><td>volume</td><td>34</td></tr> <tr><td>doi</td><td>10.1017/S0022112068001837</td></tr> <tr><td>urls</td><td> <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/3508a46c0e45ffc778ff6ed02c3be808275f77c2 </td></tr> <tr><td>id</td><td>id-7194243444352231126</td></tr> <tr><td>abstract</td><td> <p>The linear stability of plane Poiseuille flow has been studied both for the steady flow and also for the case of a pressure gradient that is periodic in time. The disturbance streamfunction is expanded in a complete set of functions that satisfy the boundary conditions. The expansion is truncated after N terms, yielding a set of N linear first-order differential equations for the time dependence of the expansion coefficients. For the steady flow, calculations have been carried out for both symmetric and antisymmetric disturbances over a wide range of Reynolds numbers and disturbance wave-numbers. The neutral stability curve, curves of constant amplification and decay rate, and the eigenfunctions for a number of cases have been calculated. The eigenvalue spectrum has also been examined in some detail. The first N eigenvalues are obtained from the numerical calculations, and an asymptotic formula for the higher eigenvalues has been derived. For those values of the wave-number and Reynolds number for which calculations were carried out by L. H. Thomas, there is excellent agreement in both the eigenvalues and the eigenfunctions with the results of Thomas. For the time-dependent flow, it was found, for small amplitudes of oscillation, that the modulation tended to stabilize the flow. If the flow was not completely stabilized then the growth rate of the disturbance was decreased. For a particular wave-number and Reynolds number there is an optimum amplitude and frequency of oscillation for which the degree of stabilization is a maximum. For a fixed amplitude and frequency of oscillation the wave-number of the disturbance and the Reynolds number has been varied and a neutral stability curve has been calculated. The neutral stability curve for the modulated flow shows a higher critical Reynolds number and a narrower band of unstable wave-numbers than that of the steady flow. The physical mechanism responsible for this stabilization appears to be an interference between the shear wave generated by the modulation and the disturbance. For large amplitudes, the modulation destabilizes the flow. Growth rates of the modulated flow as much as an order of magnitude greater than that of the steady unmodulated flow have been found.</p> </td></tr> </table>	authors	<ul style="list-style-type: none"> • C. Grosch • H. Salwen 	title	The stability of steady and time-dependent plane Poiseuille flow	publication_date	1968-10-16 00:00:00	source	SupportedSources.SEMANTIC_SCHOLAR	journal	Journal of Fluid Mechanics	volume	34	doi	10.1017/S0022112068001837	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/3508a46c0e45ffc778ff6ed02c3be808275f77c2 	id	id-7194243444352231126	abstract	<p>The linear stability of plane Poiseuille flow has been studied both for the steady flow and also for the case of a pressure gradient that is periodic in time. The disturbance streamfunction is expanded in a complete set of functions that satisfy the boundary conditions. The expansion is truncated after N terms, yielding a set of N linear first-order differential equations for the time dependence of the expansion coefficients. For the steady flow, calculations have been carried out for both symmetric and antisymmetric disturbances over a wide range of Reynolds numbers and disturbance wave-numbers. The neutral stability curve, curves of constant amplification and decay rate, and the eigenfunctions for a number of cases have been calculated. The eigenvalue spectrum has also been examined in some detail. The first N eigenvalues are obtained from the numerical calculations, and an asymptotic formula for the higher eigenvalues has been derived. For those values of the wave-number and Reynolds number for which calculations were carried out by L. H. Thomas, there is excellent agreement in both the eigenvalues and the eigenfunctions with the results of Thomas. 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Growth rates of the modulated flow as much as an order of magnitude greater than that of the steady unmodulated flow have been found.</p>	DUPPLICATES	154
authors	<ul style="list-style-type: none"> • Chester E. Grosch • Harold Salwen 																																											
title	The stability of steady and time-dependent plane Poiseuille flow																																											
publication_date	1968-10-16 00:00:00																																											
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journal	Journal of Fluid Mechanics																																											
volume	34																																											
doi	10.1017/S0022112068001837																																											
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authors	<ul style="list-style-type: none"> • C. Grosch • H. Salwen 																																											
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volume	34																																											
doi	10.1017/S0022112068001837																																											
urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/3508a46c0e45ffc778ff6ed02c3be808275f77c2 																																											
id	id-7194243444352231126																																											
abstract	<p>The linear stability of plane Poiseuille flow has been studied both for the steady flow and also for the case of a pressure gradient that is periodic in time. The disturbance streamfunction is expanded in a complete set of functions that satisfy the boundary conditions. The expansion is truncated after N terms, yielding a set of N linear first-order differential equations for the time dependence of the expansion coefficients. For the steady flow, calculations have been carried out for both symmetric and antisymmetric disturbances over a wide range of Reynolds numbers and disturbance wave-numbers. The neutral stability curve, curves of constant amplification and decay rate, and the eigenfunctions for a number of cases have been calculated. The eigenvalue spectrum has also been examined in some detail. The first N eigenvalues are obtained from the numerical calculations, and an asymptotic formula for the higher eigenvalues has been derived. For those values of the wave-number and Reynolds number for which calculations were carried out by L. H. Thomas, there is excellent agreement in both the eigenvalues and the eigenfunctions with the results of Thomas. For the time-dependent flow, it was found, for small amplitudes of oscillation, that the modulation tended to stabilize the flow. If the flow was not completely stabilized then the growth rate of the disturbance was decreased. For a particular wave-number and Reynolds number there is an optimum amplitude and frequency of oscillation for which the degree of stabilization is a maximum. For a fixed amplitude and frequency of oscillation the wave-number of the disturbance and the Reynolds number has been varied and a neutral stability curve has been calculated. The neutral stability curve for the modulated flow shows a higher critical Reynolds number and a narrower band of unstable wave-numbers than that of the steady flow. The physical mechanism responsible for this stabilization appears to be an interference between the shear wave generated by the modulation and the disturbance. For large amplitudes, the modulation destabilizes the flow. Growth rates of the modulated flow as much as an order of magnitude greater than that of the steady unmodulated flow have been found.</p>																																											

	doc_1	doc_2	decision	id
cases	authors • Meadows, H.	authors • H. Meadows		
	title Solution of Systems of Linear Ordinary Differential Equations with Periodic Coefficients	title Solution of systems of linear ordinary differential equations with periodic coefficients		
	publication_date 1962-01-01 00:00:00	publication_date 1962-07-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal 	journal Bell System Technical Journal		
	volume 	volume 41		
	doi 10.1002/j.1538-7305.1962.tb03278.x	doi 10.1002/J.1538-7305.1962.TB03278.X		
	urls • http://dx.doi.org/10.1002/j.1538-7305.1962.tb03278.x	urls • https://www.semanticscholar.org/paper/64ac7f2929940324df119b43dbea6abe6bd1e15b		
	id id-8043986670565142858	id id-3677381061433678681		
	abstract 	abstract An analysis technique is presented to provide an essentially explicit solution for a system of n simultaneous first-order linear differential equations with periodic coefficients. This representation of a periodic variable-parameter linear system of arbitrary finite order is chosen for its theoretical and practical advantages over the classical nth order linear differential equation. Emphasis is placed on natural mode solutions of a homogeneous set of equations. The characteristic exponents for these solutions are determined from a polynomial equation the coefficients of which are linear combinations of n – 1 convergent infinite-order determinants. Approximate calculation of these determinants is feasible for problems of moderate order.	DUPPLICATES	155

	doc_1	doc_2	decision	id
cases	authors	• Cameron, R.		
	title	Linear differential equations with almost periodic coefficients		
	publication_date	1938-01-01 00:00:00		
	source	SupportedSources.CROSSREF		
	journal			
	volume			
	doi	10.1007/bf02547709		
	urls	<ul style="list-style-type: none"> • http://www.springerlink.com/index/pdf/10.1007/BF02547709 • http://dx.doi.org/10.1007/bf02547709 		
	id	id8426608568146149857		
	abstract			

NOT DUPLICATES 156

	doc_1	doc_2	decision	id
cases	<p>authors</p> <ul style="list-style-type: none"> • Cameron, R. <p>title</p> Linear differential equations with almost periodic coefficients <p>publication_date</p> 1938-01-01 00:00:00 <p>source</p> SupportedSources.CROSSREF <p>journal</p> <p>volume</p> <p>doi</p> 10.1007/bf02547709 <p>urls</p> <ul style="list-style-type: none"> • http://www.springerlink.com/index/pdf/10.1007/BF02547709 • http://dx.doi.org/10.1007/bf02547709 <p>id</p> id8426608568146149857 <p>abstract</p>	<p>authors</p> <ul style="list-style-type: none"> • Cameron, R. <p>title</p> Linear differential equations with almost periodic coefficients <p>publication_date</p> 1935-09-01 00:00:00 <p>source</p> SupportedSources.CROSSREF <p>journal</p> <p>volume</p> <p>doi</p> 10.1215/s0012-7094-35-00124-7 <p>urls</p> <ul style="list-style-type: none"> • http://dx.doi.org/10.1215/s0012-7094-35-00124-7 <p>id</p> id4937672250519242781 <p>abstract</p>	NOT DUPLICATES	157

	doc_1	doc_2	decision	id
cases	authors • Cameron, R.	authors • Cameron, R.	NOT DUPLICATES	158
	title Linear Differential Equations with Almost Periodic Coefficients	title Linear differential equations with almost periodic coefficients		
	publication_date 1936-01-01 00:00:00	publication_date 1935-09-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.CROSSREF		
	journal 	journal 		
	volume 	volume 		
	doi 10.2307/1968684	doi 10.1215/s0012-7094-35-00124-7		
	urls • http://dx.doi.org/10.2307/1968684	urls • http://dx.doi.org/10.1215/s0012-7094-35-00124-7		
	id id-7780517065634213159	id id4937672250519242781		
	abstract 	abstract 		

	doc_1	doc_2	decision	id
cases	<p>authors</p> <ul style="list-style-type: none"> • Huang, Q. • Chen, S. <p>title Oscillation of neutral differential equations with periodic coefficients</p> <p>publication_date None</p> <p>source SupportedSources.UNPAYWALL</p> <p>journal Proceedings of the American Mathematical Society</p> <p>volume</p> <p>doi 10.1090/s0002-9939-1990-1075188-6</p> <p>urls <ul style="list-style-type: none"> • https://doi.org/10.1090/s0002-9939-1990-1075188-6 </p> <p>id id4930781702551856635</p> <p>abstract</p>	<p>authors</p> <ul style="list-style-type: none"> • Huang, Q. • Chen, S. <p>title Oscillation of Neutral Differential Equations with Periodic Coefficients</p> <p>publication_date None</p> <p>source SupportedSources.UNPAYWALL</p> <p>journal Proceedings of the American Mathematical Society</p> <p>volume</p> <p>doi 10.2307/2047748</p> <p>urls <ul style="list-style-type: none"> • https://doi.org/10.2307/2047748 </p> <p>id id1766747969566173672</p> <p>abstract</p>	NOT DUPLICATES	159

	doc_1	doc_2	decision	id
cases	authors	• Demidenko, G. • Matveeva, I. • Skvortsova, M.	authors	• Demidenko, G. • Matveeva, I. • Skvortsova, M.
	title	Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms	title	Estimates for solutions to neutral differential equations with periodic coefficients of linear terms
	publication_date	None	publication_date	None
	source	SupportedSources.UNPAYWALL	source	SupportedSources.UNPAYWALL
	journal	Siberian Mathematical Journal	journal	Sibirskii matematicheskii zhurnal
	volume		volume	
	doi	10.1134/s0037446619050069	doi	10.33048/smzh.2019.60.506
	urls	• https://doi.org/10.1134/s0037446619050069	urls	• https://doi.org/10.33048/smzh.2019.60.506
	id	id1733208017993083501	id	id-153308482094946585
	abstract		abstract	

NOT DUPLICATES 160

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Fischer, A.	authors <ul style="list-style-type: none">• A. Fischer		
	title Almost periodic solutions with a prescribed spectrum of linear and quasilinear differential equations with almost periodic coefficients and constant time lag (Neutral differential equations)	title Almost periodic solutions with a prescribed spectrum of linear and quasilinear differential equations with almost periodic coefficients and constant time lag (Neutral differential equations)		
	publication_date None	publication_date None		
	source SupportedSources.UNPAYWALL	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Mathematica Bohemica	journal		
	volume	volume 137		
	doi 10.21136/mb.2012.142896	doi 10.21136/mb.2012.142896		
	urls <ul style="list-style-type: none">• https://doi.org/10.21136/mb.2012.142896	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/179f0b145e32fa74a889ed2a4841ae1ed6de46cd		
	id id-5567177576727128574	id id-8647477806862374945		
	abstract	abstract None	DUPPLICATES	161

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Hocine, G. • Abdelouahed, A. • Ahcene, D. 	<ul style="list-style-type: none"> • Gabsi Hocine • Ardjouni Abdelouahed • D. Ahcène 	DUPLICATES 162
	title	Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	
	publication_date	None	None	
	source	SupportedSources.UNPAYWALL	SupportedSources.SEMANTIC_SCHOLAR	
	journal	Mathematica Moravica		
	volume		22	
	doi	10.5937/matmor1802069g	10.5937/MATMOR1802069G	
	urls	<ul style="list-style-type: none"> • https://doi.org/10.5937/matmor1802069g 	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/164fdf2dfb49e9a0acdfec0f82fbe7cc479aaba 	
	id	id2115724014329642422	id-1988213344838111681	
	abstract		None	

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • S. Afonso • E. Bonotto • M. R. Da Silva 	authors <ul style="list-style-type: none"> • Peng, S. • Zhu, S. 	NOT DUPLICATES	163
	title Periodic solutions of neutral functional differential equations	title PERIODIC SOLUTIONS OF NEUTRAL FUNCTIONAL DIFFERENTIAL EQUATIONS		
	publication_date 2023-03-01 00:00:00	publication_date 2001-01-01 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.CROSSREF		
	journal	journal		
	volume	volume		
	doi 10.1016/j.jde.2022.12.014	doi 10.1016/s0252-9602(17)30581-7		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/a72db53fb458d816f7db4ef3720a3c5585794ec6 	urls <ul style="list-style-type: none"> • https://api.elsevier.com/content/article/PII:S0252960217305817?httpAccept=text/xml • https://api.elsevier.com/content/article/PII:S0252960217305817?httpAccept=text/plain http://dx.doi.org/10.1016/s0252-9602(17)30581-7 		
	id id-4132729676480430182	id id2360312270949483195		
	abstract None	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Moalla, M.• Karroum, R.• Injrou, S.	authors <ul style="list-style-type: none">• Moalla, M.• Injrou, S.• Karroum, R.	NOT DUPLICATES	164
	title Oscillation and disconjugacy for generalised half-linear differential equations with Bohr almost periodic coefficients	title Oscillation and disconjugacy for generalised half-linear differential equations with Bohr almost periodic coefficients		
	publication_date 2022-01-01 00:00:00	publication_date 2022-01-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.CROSSREF		
	journal	journal		
	volume	volume		
	doi 10.1504/ijdsde.2022.10051420	doi 10.1504/ijdsde.2022.126535		
	urls <ul style="list-style-type: none">• http://www.inderscienceonline.com/doi/full/10.1504/IJDSDE.2022.10051420• http://dx.doi.org/10.1504/ijdsde.2022.10051420	urls <ul style="list-style-type: none">• http://www.inderscienceonline.com/doi/full/10.1504/IJDSDE.2022.126535• http://dx.doi.org/10.1504/ijdsde.2022.126535		
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	abstract	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Moalla, M.• Injrou, S.• Karroum, R.	authors <ul style="list-style-type: none">• M. Moalla• R. Karroum• S. Injrou	NOT DUPLICATES	165
	title Oscillation and disconjugacy for generalised half-linear differential equations with Bohr almost periodic coefficients	title Oscillation and disconjugacy for generalised half-linear differential equations with Bohr almost periodic coefficients		
	publication_date 2022-01-01 00:00:00	publication_date None		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal		
	volume	volume		
	doi 10.1504/ijdsde.2022.126535	doi 10.1504/ijdsde.2022.10051420		
	urls <ul style="list-style-type: none">• http://www.inderscienceonline.com/doi/full/10.1504/IJDSDE.2022.126535• http://dx.doi.org/10.1504/ijdsde.2022.126535	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/470faec90cf80f5c3ca61c59c95de7effad4ea9		
	id id-8887867681786998145	id id-312420865333794519		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Stanzhysky, A. • Misiats, O. • Stanzhyskyi, O. 	authors <ul style="list-style-type: none"> • Andriy Stanzhyskyi • Oleksandr Stanzhyskyi • Oleksandr Misiats 		
	title <p>Invariant measure for neutral stochastic functional differential equations with non-Lipschitz coefficients</p>	title <p>Invariant Measure for Neutral Stochastic Functional Differential Equations with Non-Lipschitz Coefficients</p>		
	publication_date <p>2022-01-01 00:00:00</p>	publication_date <p>2021-11-11 22:59:01+00:00</p>		
	source <p>SupportedSources.CROSSREF</p>	source <p>SupportedSources.ARXIV</p>		
	journal <p></p>	journal <p>None</p>		
	volume <p></p>	volume <p></p>		
	doi <p>10.3934/eect.2022005</p>	doi <p></p>		
	urls <ul style="list-style-type: none"> • http://dx.doi.org/10.3934/eect.2022005 	urls <ul style="list-style-type: none"> • http://arxiv.org/pdf/2111.06492v1 • http://arxiv.org/abs/2111.06492v1 • http://arxiv.org/pdf/2111.06492v1 		
	id <p>id-7207230762789720761</p>	id <p>id5940007233893749820</p>		
	abstract <p></p>	abstract <p>In this work we study the long time behavior of nonlinear stochastic functional-differential equations of neutral type in Hilbert spaces with non-Lipschitz nonlinearities. We establish the existence of invariant measures in the shift spaces for such equations. Our approach is based on Krylov-Bogoliubov theorem on the tightness of the family of measures.</p>	DUPPLICATES	166

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Demidenko, G. • Matveeva, I. • Skvortsova, M. 	authors <ul style="list-style-type: none"> • G. Demidenko • I. Matveeva • M. Skvortsova 	NOT DUPLICATES	167
	title Estimates for solutions to neutral differential equations with periodic coefficients of linear terms	title Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms		
	publication_date 2019-08-30 00:00:00	publication_date 2019-08-30 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal Siberian Mathematical Journal		
	volume	volume 60		
	doi 10.33048/smzh.2019.60.506	doi 10.1134/S0037446619050069		
	urls <ul style="list-style-type: none"> • http://dx.doi.org/10.33048/smzh.2019.60.506 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/79d715349b1ba97dcc27c25ba9fe8ef79abc9ff4 		
	id id-5894517610214806346	id id-7765202431179083903		
	abstract	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Demidenko, G. • Matveeva, I. • Skvortsova, M. 	authors <ul style="list-style-type: none"> • Gennadii Demidenko • I. I. Matveeva • M. A. Skvortsova 	NOT DUPLICATES	168
	title Estimates for solutions to neutral differential equations with periodic coefficients of linear terms	title Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms		
	publication_date 2019-08-30 00:00:00	publication_date 2019-08-30 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.OPENALEX		
	journal	journal Siberian Mathematical Journal		
	volume	volume 60		
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	urls <ul style="list-style-type: none"> • http://dx.doi.org/10.33048/smzh.2019.60.506 	urls <ul style="list-style-type: none"> • https://openalex.org/W2978217756 • https://doi.org/10.1134/s0037446619050069 		
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	abstract	abstract		

	doc_1	doc_2	decision	id
cases	authors • Demidenko, G. • Matveeva, I. • Skvortsova, M.	authors • G. V. Demidenko • I. I. Matveeva • M. A. Skvortsova	NOT DUPLICATES	169
	title Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms	title Estimates for solutions to neutral differential equations with periodic coefficients of linear terms		
	publication_date 2019-01-01 00:00:00	publication_date 2019-08-30 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.INTERNET_ARCHIVE		
	journal	journal Sobolev Institute of Mathematics		
	volume	volume		
	doi 10.1134/s0037446619050069	doi 10.33048/smzh.2019.60.506		
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	id id-6327912662501437166	id id-8149381196872574119		
	abstract	abstract Use of the all-Russian mathematical portal Math-Net.Ru implies that you have read and agreed to these terms of use		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • G. Demidenko • I. Matveeva • M. Skvortsova 	authors <ul style="list-style-type: none"> • G. V. Demidenko • I. I. Matveeva • M. A. Skvortsova 		
	title Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms	title Estimates for solutions to neutral differential equations with periodic coefficients of linear terms		
	publication_date 2019-08-30 00:00:00	publication_date 2019-08-30 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal Siberian Mathematical Journal	journal Sobolev Institute of Mathematics		
	volume 60	volume		
	doi 10.1134/S0037446619050069	doi 10.33048/smzh.2019.60.506		
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	abstract None	abstract Use of the all-Russian mathematical portal Math-Net.Ru implies that you have read and agreed to these terms of use		

NOT
DUPLICATES 170

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • G. Demidenko • I. Matveeva • M. Skvortsova 	authors <ul style="list-style-type: none"> • Demidenko, G. • Matveeva, I. • Skvortsova, M. 	NOT DUPLICATES	171
	title Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms	title Estimates for solutions to neutral differential equations with periodic coefficients of linear terms		
	publication_date 2019-08-30 00:00:00	publication_date None		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.UNPAYWALL		
	journal Siberian Mathematical Journal	journal Sibirskii matematicheskii zhurnal		
	volume 60	volume		
	doi 10.1134/S0037446619050069	doi 10.33048/smzh.2019.60.506		
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	title Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms	title Estimates for solutions to neutral differential equations with periodic coefficients of linear terms		
	publication_date 2019-08-30 00:00:00	publication_date 2019-08-30 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.INTERNET_ARCHIVE		
	journal Siberian Mathematical Journal	journal Sobolev Institute of Mathematics		
	volume 60	volume		
	doi 10.1134/s0037446619050069	doi 10.33048/smzh.2019.60.506		
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	id id1785289245985192477	id id-8149381196872574119		
	abstract	abstract Use of the all-Russian mathematical portal Math-Net.Ru implies that you have read and agreed to these terms of use		

NOT
DUPLICATES

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	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Gennadii Demidenko • I. I. Matveeva • M. A. Skvortsova 	authors <ul style="list-style-type: none"> • Demidenko, G. • Matveeva, I. • Skvortsova, M. 	NOT DUPLICATES	173
	title Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms	title Estimates for solutions to neutral differential equations with periodic coefficients of linear terms		
	publication_date 2019-08-30 00:00:00	publication_date None		
	source SupportedSources.OPENALEX	source SupportedSources.UNPAYWALL		
	journal Siberian Mathematical Journal	journal Sibirskii matematicheskii zhurnal		
	volume 60	volume		
	doi 10.1134/s0037446619050069	doi 10.33048/smzh.2019.60.506		
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	title	Estimates for solutions to neutral differential equations with periodic coefficients of linear terms	title	Estimates for Solutions to Neutral Differential Equations with Periodic Coefficients of Linear Terms <th data-kind="ghost"></th>	
	publication_date	2019-08-30 00:00:00	publication_date	None	
	source	SupportedSources.INTERNET_ARCHIVE	source	SupportedSources.UNPAYWALL	
	journal	Sobolev Institute of Mathematics	journal	Siberian Mathematical Journal	
	volume		volume		
	doi	10.33048/smzh.2019.60.506	doi	10.1134/s0037446619050069	
	urls	<ul style="list-style-type: none"> • https://web.archive.org/web/20220518213547/http://www.mathnet.ru/links/7ba867072bee1a98b99fdd6a4f528c86/smj3133.pdf 	urls	<ul style="list-style-type: none"> • https://doi.org/10.1134/s0037446619050069 	
	id	id-8149381196872574119	id	id1733208017993083501	
	abstract	Use of the all-Russian mathematical portal Math-Net.Ru implies that you have read and agreed to these terms of use	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Hocine, G. • Abdelouahed, A. • Ahcene, D. 	authors <ul style="list-style-type: none"> • Abdelouahed Ardjouni • Ahcene Djoudi • Hocine Gabsi 		
	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients		
	publication_date 2018-01-01 00:00:00	publication_date 2018-01-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.CORE		
	journal	journal Mathematica Moravica		
	volume	volume		
	doi 10.5937/matmor1802069g	doi None		
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	id id4729086978861901144	id id-6304551383133223667		
	abstract	abstract <p>In this paper, we use Krasnoselskii's fixed point theorem to establish the existence of positive periodic solutions of second-order nonlinear neutral differential equations. Our techniques can be used and applied to study other classes of problems and extension some results</p>	DUPPLICATES	175

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Guentri Hocine • Ardjouni Abdelouaheb • Djoudi Ahcene 	authors <ul style="list-style-type: none"> • Abdelouaheb Ardjouni • Ahcene Djoudi • Hocine Gabsi 		
	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	title Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients		
	publication_date 2018-01-01 00:00:00	publication_date 2018-01-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.CORE		
	journal Mathematica Moravica	journal Mathematica Moravica		
	volume	volume		
	doi 10.5937/matmor1802069g	doi None		
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	abstract	abstract <p>In this paper, we use Krasnoselskii's fixed point theorem to establish the existence of positive periodic solutions of second-order nonlinear neutral differential equations. Our techniques can be used and applied to study other classes of problems and extension some results</p>	DUPPLICATES	176

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> • Abdelouahed Ardjouni • Ahcene Djoudi • Hocine Gabsi 	authors	<ul style="list-style-type: none"> • Hocine, G. • Abdelouahed, A. • Ahcene, D. 	
	title	Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	title	Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	
	publication_date	2018-01-01 00:00:00	publication_date	None	DUPPLICATES 177
	source	SupportedSources.CORE	source	SupportedSources.UNPAYWALL	
	journal	Mathematica Moravica	journal	Mathematica Moravica	
	volume		volume		
	doi	None	doi	10.5937/matmor1802069g	
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	abstract	In this paper, we use Krasnoselskii's fixed point theorem to establish the existence of positive periodic solutions of second-order nonlinear neutral differential equations. Our techniques can be used and applied to study other classes of problems and extension some results	abstract		

	doc_1	doc_2	decision	id	
cases	authors	<ul style="list-style-type: none"> • Abdelouahed Ardjouni • Ahcene Djoudi • Hocine Gabsi 	authors	<ul style="list-style-type: none"> • Gabsi Hocine • Ardjouni Abdelouahed • D. Ahcène 	
	title	Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	title	Positive periodic solutions of second-order nonlinear neutral differential equations with variable coefficients	
	publication_date	2018-01-01 00:00:00	publication_date	None	
	source	SupportedSources.CORE	source	SupportedSources.SEMANTIC_SCHOLAR	
	journal	Mathematica Moravica	journal		
	volume		volume	22	
	doi	None	doi	10.5937/MATMOR1802069G	
	urls	<ul style="list-style-type: none"> • https://core.ac.uk/download/201451407.pdf 	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/164fdf2dfb49e9a0acdfec0f82fbe7cc479aaba 	
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	abstract	In this paper, we use Krasnoselskii's fixed point theorem to establish the existence of positive periodic solutions of second-order nonlinear neutral differential equations. Our techniques can be used and applied to study other classes of problems and extension some results	abstract	None	DUPPLICATES 178

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Fazia Bedouhene • Nouredine Challali • Omar Mellah • Paul Raynaud de Fitte • Mannal Smaali 	<ul style="list-style-type: none"> • F. Bedouhene • Nouredine Challali • Omar Mellah • P. R. D. Fitte • M. Smaali 	
	title	Almost periodic solution in distribution for stochastic differential equations with Stepanov almost periodic coefficients	Almost periodic solution in distribution for stochastic differential equations with Stepanov almost periodic coefficients	
	publication_date	2017-03-01 13:14:17+00:00	2017-03-01 00:00:00	
	source	SupportedSources.ARXIV	SupportedSources.SEMANTIC_SCHOLAR	
	journal	None	arXiv: Probability	
	volume			
	doi			
	urls	<ul style="list-style-type: none"> • http://arxiv.org/pdf/1703.00282v3 • http://arxiv.org/abs/1703.00282v3 • http://arxiv.org/pdf/1703.00282v3 	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/bc2cb9dee2a5189bc8a5d8f6ea096b03e2083cc3 	
id	id-8026509612505451757	id-7181293776587355464		DUPPLICATES 179
abstract	This paper deals with the existence and uniqueness of (\$\mu\$-pseudo) almost periodic mild solution to some evolution equations with Stepanov (\$\mu\$-pseudo) almost periodic coefficients, in both determinist and stochastic cases. After revisiting some known concepts and properties of Stepanov (\$\mu\$-pseudo) almost periodicity in complete metric space, we consider a semilinear stochastic evolution equation on a Hilbert separable space with Stepanov (\$\mu\$-pseudo) almost periodic coefficients. We show existence and uniqueness of the mild solution which is (\$\mu\$-pseudo) almost periodic in 2-distribution. We also generalize a result by Andres and Pennequin, according to which there is no purely Stepanov almost periodic solutions to differential equations with Stepanov almost periodic coefficients.	This paper deals with the existence and uniqueness of (\$\hat{\mu}\$-pseudo) almost periodic mild solution to some evolution equations with Stepanov (\$\hat{\mu}\$-pseudo) almost periodic coefficients, in both determinist and stochastic cases. After revisiting some known concepts and properties of Stepanov (\$\hat{\mu}\$-pseudo) almost periodicity in complete metric space, we consider a semilinear stochastic evolution equation on a Hilbert separable space with Stepanov (\$\hat{\mu}\$-pseudo) almost periodic coefficients. We show existence and uniqueness of the mild solution which is (\$\hat{\mu}\$-pseudo) almost periodic in 2-distribution. We also generalize a result by Andres and Pennequin, according to which there is no purely Stepanov almost periodic solutions to differential equations with Stepanov almost periodic coefficients.		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Tomás Caraballo • David Cheban 	authors <ul style="list-style-type: none"> • Caraballo Garrido, Tomás • Cheban, David 		
	title <p>Almost periodic and almost automorphic solutions of linear differential/difference equations without Favard's separation condition. II</p>	title <p>Almost periodic and almost automorphic solutions of linear differential/difference equations without Favard's separation condition. II</p>		
	publication_date <p>2009-01-01 00:00:00</p>	publication_date <p>2009-01-01 00:00:00</p>		
	source <p>SupportedSources.OPENALEX</p>	source <p>SupportedSources.CORE</p>		
	journal <p>Journal of Differential Equations</p>	journal <p>None</p>		
	volume <p>246</p>	volume <p></p>		
	doi <p>10.1016/j.jde.2008.07.025</p>	doi <p>10.1016/j.jde.2008.04.001</p>		
	urls <ul style="list-style-type: none"> • https://openalex.org/W2010705981 • https://doi.org/10.1016/j.jde.2008.07.025 • https://doi.org/10.1016/j.jde.2008.07.025 	urls <ul style="list-style-type: none"> • https://core.ac.uk/download/51387286.pdf 		
	id <p>id-2180756845385905798</p>	id <p>id3688417482620115797</p>		
	abstract <p></p>	abstract <p>In this paper we continue the research started in a previous paper, where we proved that the linear differential equation (1) $x_0 = A(t)x + f(t)$ with Levitan almost periodic coefficients has a unique Levitan almost periodic solution, if it has at least one bounded solution and the bounded solutions of the homogeneous equation (2) $x_0 = A(t)x$ are homoclinic to zero (i.e. $\lim_{t \rightarrow \pm\infty} x(t) = 0$ for all bounded solution x of (2)). If the coefficients of (1) are Bohr almost periodic and all bounded solutions of equation (2) are homoclinic to zero, then the equation (1) admits a unique almost automorphic solution. In this second part we first generalise this result for linear functional differential equations (FDEs) of the form (3) $x_0 = A(t)x + f(t)$; as well as for neutral FDEs. Analogous results for functional difference equations with finite delay and some classes of partial differential equations are also given. We study the problem of existence of Bohr/Levitan almost periodic solutions of differential equations of type (3) in the context of general semi-group non-autonomous dynamical systems (cocycles), in contrast with the group non-autonomous dynamical systems framework considered in the first part</p>	NOT DUPLICATES	180

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Huang, Q. • Chen, S. 	authors <ul style="list-style-type: none"> • Qingguang Huang • Shaozhu Chen 	NOT DUPLICATES	181
	title Oscillation of neutral differential equations with periodic coefficients	title Oscillation of Neutral Differential Equations with Periodic Coefficients		
	publication_date 1990-01-01 00:00:00	publication_date 1990-12-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.OPENALEX		
	journal	journal Proceedings of the American Mathematical Society		
	volume	volume 110		
	doi 10.1090/s0002-9939-1990-1075188-6	doi 10.2307/2047748		
	urls <ul style="list-style-type: none"> • http://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf • http://dx.doi.org/10.1090/s0002-9939-1990-1075188-6 	urls <ul style="list-style-type: none"> • https://openalex.org/W4241567090 • https://doi.org/10.2307/2047748 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 		
	id id233998356981636484	id id7336688672901455324		
	abstract	abstract		

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Huang, Q. • Chen, S. 	authors	<ul style="list-style-type: none"> • Qingguang Huang • Shaozhu Chen
	title	Oscillation of neutral differential equations with periodic coefficients	title	Oscillation of Neutral Differential Equations with Periodic Coefficients
	publication_date	1990-01-01 00:00:00	publication_date	1990-01-01 00:00:00
	source	SupportedSources.CROSSREF	source	SupportedSources.INTERNET_ARCHIVE
	journal		journal	JSTOR
	volume		volume	
	doi	10.1090/s0002-9939-1990-1075188-6	doi	10.2307/2047748
	urls	<ul style="list-style-type: none"> • http://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf • http://dx.doi.org/10.1090/s0002-9939-1990-1075188-6 	urls	<ul style="list-style-type: none"> • https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf
	id	id233998356981636484	id	id7323005350579396027
	abstract		abstract	We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.

NOT
DUPLICATES 182

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Qing Huang • Shao Rui Chen 	authors <ul style="list-style-type: none"> • Qingguang Huang • Shaozhu Chen 	NOT DUPLICATES	183
	title Oscillation of neutral differential equations with periodic coefficients	title Oscillation of Neutral Differential Equations with Periodic Coefficients		
	publication_date 1990-04-01 00:00:00	publication_date 1990-12-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.OPENALEX		
	journal Proceedings of the American Mathematical Society	journal Proceedings of the American Mathematical Society		
	volume 110	volume 110		
	doi 10.1090/s0002-9939-1990-1075188-6	doi 10.2307/2047748		
	urls <ul style="list-style-type: none"> • https://openalex.org/W1996322423 • https://doi.org/10.1090/s0002-9939-1990-1075188-6 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	urls <ul style="list-style-type: none"> • https://openalex.org/W4241567090 • https://doi.org/10.2307/2047748 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 		
	id id7288436618115398865	id id7336688672901455324		
	abstract	abstract		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• Qing Huang• Shao Rui Chen	authors <ul style="list-style-type: none">• Qingguang Huang• Shaozhu Chen		
	title Oscillation of neutral differential equations with periodic coefficients	title Oscillation of Neutral Differential Equations with Periodic Coefficients		
	publication_date 1990-04-01 00:00:00	publication_date 1990-01-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.INTERNET_ARCHIVE		
	journal Proceedings of the American Mathematical Society	journal JSTOR		
	volume 110	volume		
	doi 10.1090/s0002-9939-1990-1075188-6	doi 10.2307/2047748		
	urls <ul style="list-style-type: none">• https://openalex.org/W1996322423• https://doi.org/10.1090/s0002-9939-1990-1075188-6• https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf	urls <ul style="list-style-type: none">• https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf		
	id id7288436618115398865	id id7323005350579396027		
	abstract	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	NOT DUPLICATES	184

	doc_1	doc_2	decision	id
cases	authors • Qing Huang • Shao Rui Chen	authors • Huang, Q. • Chen, S.	NOT DUPLICATES	185
	title Oscillation of neutral differential equations with periodic coefficients	title Oscillation of Neutral Differential Equations with Periodic Coefficients		
	publication_date 1990-04-01 00:00:00	publication_date None		
	source SupportedSources.OPENALEX	source SupportedSources.UNPAYWALL		
	journal Proceedings of the American Mathematical Society	journal Proceedings of the American Mathematical Society		
	volume 110	volume 		
	doi 10.1090/s0002-9939-1990-1075188-6	doi 10.2307/2047748		
	urls • https://openalex.org/W1996322423 • https://doi.org/10.1090/s0002-9939-1990-1075188-6 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf	urls • https://doi.org/10.2307/2047748		
	id id7288436618115398865	id id1766747969566173672		
	abstract 	abstract 		

	doc_1	doc_2	decision	id
cases	authors	<ul style="list-style-type: none"> • Qingguang Huang • Shaozhu Chen 	authors	<ul style="list-style-type: none"> • Qing Huang • S. Chen
	title	Oscillation of Neutral Differential Equations with Periodic Coefficients	title	Oscillation of neutral differential equations with periodic coefficients
	publication_date	1990-12-01 00:00:00	publication_date	1990-04-01 00:00:00
	source	SupportedSources.OPENALEX	source	SupportedSources.SEMANTIC_SCHOLAR
	journal	Proceedings of the American Mathematical Society	journal	
	volume	110	volume	110
	doi	10.2307/2047748	doi	10.1090/S0002-9939-1990-1075188-6
	urls	<ul style="list-style-type: none"> • https://openalex.org/W4241567090 • https://doi.org/10.2307/2047748 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	urls	<ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/c8419b6fc95fc4cbd96b62fd720d9b037fc573b3
	id	id7336688672901455324	id	id-8356078989371677773
	abstract		abstract	We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation $n [x(t) p(x)(t r)] + L q_i(t)x(t ir) = 0$, $i=1, \dots, n$ where $0 < 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.

NOT
DUPLICATES

186

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Qingguang Huang • Shaozhu Chen 	authors <ul style="list-style-type: none"> • Qing Guang Huang • Shao Zhu Chen 		
	title Oscillation of Neutral Differential Equations with Periodic Coefficients	title Oscillation of neutral differential equations with periodic coefficients		
	publication_date 1990-12-01 00:00:00	publication_date 1990-04-01 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.INTERNET_ARCHIVE		
	journal Proceedings of the American Mathematical Society	journal American Mathematical Society (AMS)		
	volume 110	volume		
	doi 10.2307/2047748	doi 10.1090/s0002-9939-1990-1075188-6		
	urls <ul style="list-style-type: none"> • https://openalex.org/W4241567090 • https://doi.org/10.2307/2047748 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 		
	id id7336688672901455324	id id8276101076510162791		
	abstract	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	NOT DUPLICATES	187

	doc_1	doc_2	decision	id	
cases	authors	• Qingguang Huang • Shaozhu Chen	authors	• Huang, Q. • Chen, S.	
	title	Oscillation of Neutral Differential Equations with Periodic Coefficients	title	Oscillation of neutral differential equations with periodic coefficients	
	publication_date	1990-12-01 00:00:00	publication_date	None	
	source	SupportedSources.OPENALEX	source	SupportedSources.UNPAYWALL	
	journal	Proceedings of the American Mathematical Society	journal	Proceedings of the American Mathematical Society	
	volume	110	volume		
	doi	10.2307/2047748	doi	10.1090/s0002-9939-1990-1075188-6	
	urls	• https://openalex.org/W4241567090 • https://doi.org/10.2307/2047748 • https://www.ams.org/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf	urls	• https://doi.org/10.1090/s0002-9939-1990-1075188-6	
	id	id7336688672901455324	id	id4930781702551856635	
	abstract		abstract		

NOT DUPLICATES 188

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Qing Huang • S. Chen 	authors <ul style="list-style-type: none"> • Qingguang Huang • Shaozhu Chen 		
	title Oscillation of neutral differential equations with periodic coefficients	title Oscillation of Neutral Differential Equations with Periodic Coefficients		
	publication_date 1990-04-01 00:00:00	publication_date 1990-01-01 00:00:00		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.INTERNET_ARCHIVE		
	journal	journal JSTOR		
	volume 110	volume		
	doi 10.1090/S0002-9939-1990-1075188-6	doi 10.2307/2047748		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/c8419b6fc95fc4cbd96b62fd720d9b037fc573b3 	urls <ul style="list-style-type: none"> • https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf 		
	id id-8356078989371677773	id id7323005350579396027		
	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation $n [x(t) p(x)(t r)] + L q_i(t)x(t ir) = 0$, $i=1, \dots, n$ where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	NOT DUPLICATES	189

	doc_1	doc_2	decision	id
cases	authors	• Qing Huang • S. Chen	authors	• Huang, Q. • Chen, S.
	title	Oscillation of neutral differential equations with periodic coefficients	title	Oscillation of Neutral Differential Equations with Periodic Coefficients
	publication_date	1990-04-01 00:00:00	publication_date	None
	source	SupportedSources.SEMANTIC_SCHOLAR	source	SupportedSources.UNPAYWALL
	journal		journal	Proceedings of the American Mathematical Society
	volume	110	volume	
	doi	10.1090/S0002-9939-1990-1075188-6	doi	10.2307/2047748
	urls	• https://www.semanticscholar.org/paper/c8419b6fc95fc4cbd96b62fd720d9b037fc573b3	urls	• https://doi.org/10.2307/2047748
	id	id-8356078989371677773	id	id1766747969566173672
	abstract	We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation $n [x(t) p(x)(t r)] + L q_i(t)x(t ir) = 0$, $i=I$ where $0 0$ are constants and $q_i(t) > 0$, $i = . n$, are continuous r -periodic functions.	abstract	

NOT
DUPLICATES

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	doc_1	doc_2	decision	id
cases	authors	• Qingguang Huang • Shaozhu Chen	authors	• Huang, Q. • Chen, S.
	title	Oscillation of Neutral Differential Equations with Periodic Coefficients	title	Oscillation of neutral differential equations with periodic coefficients
	publication_date	1990-01-01 00:00:00	publication_date	None
	source	SupportedSources.INTERNET_ARCHIVE	source	SupportedSources.UNPAYWALL
	journal	JSTOR	journal	Proceedings of the American Mathematical Society
	volume		volume	
	doi	10.2307/2047748	doi	10.1090/s0002-9939-1990-1075188-6
	urls	• https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf	urls	• https://doi.org/10.1090/s0002-9939-1990-1075188-6
	id	id7323005350579396027	id	id4930781702551856635
abstract	We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r -periodic functions.	abstract		NOT DUPLICATES 191

	cases	doc_1	doc_2	decision	id
		<p>authors</p> <ul style="list-style-type: none"> • Qing Guang Huang • Shao Zhu Chen <p>title Oscillation of neutral differential equations with periodic coefficients</p> <p>publication_date 1990-04-01 00:00:00</p> <p>source SupportedSources.INTERNET_ARCHIVE</p> <p>journal American Mathematical Society (AMS)</p> <p>volume</p> <p>doi 10.1090/s0002-9939-1990-1075188-6</p> <p>urls</p> <ul style="list-style-type: none"> • https://web.archive.org/web/20170826183631/http://www.ams.org/journals/proc/1990-110-04/S0002-9939-1990-1075188-6/S0002-9939-1990-1075188-6.pdf <p>id id8276101076510162791</p> <p>abstract We establish a necessary and sufficient condition for the oscillation of all solutions to the neutral differential equation where $0 < p < 1$, $r > 0$ are constants and $q_i(t) > 0$, $i = 1, \dots, n$, are continuous r-periodic functions.</p>	<p>authors</p> <ul style="list-style-type: none"> • Huang, Q. • Chen, S. <p>title Oscillation of Neutral Differential Equations with Periodic Coefficients</p> <p>publication_date None</p> <p>source SupportedSources.UNPAYWALL</p> <p>journal Proceedings of the American Mathematical Society</p> <p>volume</p> <p>doi 10.2307/2047748</p> <p>urls</p> <ul style="list-style-type: none"> • https://doi.org/10.2307/2047748 <p>id id1766747969566173672</p> <p>abstract</p>	NOT DUPLICATES	192

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Rodney D. Driver • Jack K. Hale 	authors <ul style="list-style-type: none"> • R. D. Driver • J. Hale 		
	title Ordinary and Delay Differential Equations	title Ordinary and Delay Differential Equations		
	publication_date 1977-01-01 00:00:00	publication_date 1977-02-17 00:00:00		
	source SupportedSources.OPENALEX	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Applied mathematical sciences	journal		
	volume	volume		
	doi 10.1007/978-1-4684-9467-9	doi 10.11115/1.3424256		
	urls <ul style="list-style-type: none"> • https://openalex.org/W2045256358 • https://doi.org/10.1007/978-1-4684-9467-9 • https://link.springer.com/content/pdf/bfm%3A978-1-4684-9467-9%2F1 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/d31cd3cf6bc868258180165f4a46f2468ce1510d 		
	id id-4140737822951735620	id id-1864755454246952197		
	abstract	abstract <p>Ordinary differential equations on singular spaces, Z. Bartosiewicz stability in delayed neural networks, J. Belair a condition on multi-existence of periodic solutions for a differential delay equation, Y. Cao control of global economic growth - will the centre hold?, E.N. Chukwu asymptotic behaviour of the Titchmarsh-Weyl coefficient for a coupled second order system, S.L. Clark stability problems for systems of nuclear reactors, C. Cordoneanu comparison theorems for disconjugate linear differential equations, M. Gaudenzi oscillation results for higher order nonlinear neutral delay equations with periodic coefficients, J.R. Graef, M.K. Grammatikopoulos and P.W. Spikes an implicit differential equation related to epidemic models, K.P. Hadeler and R. Shonkwiler the relationship between stability under disturbances and uniform stability in a periodic integrodifferential equation, Y. Hamaya on the asymptotic stability of the equilibrium of the damped oscillator, L. Hatvani on higher order nonlinear differential-difference equations, U. An Der Heiden vector field approximations flow homogeneity, H. Hermes hopf bifurcation for a differential-difference equation from climate modeling, G. Hetzer shock layer behaviour for vector boundary value problems, S.J. Kirschvink properties of solutions of nth order equations, W.A.J. Kosmala small solutions to BVP's at resonance with nonhomogeneous nonlinearity, L. Leffton vibrational control of time delay systems, B. Lehman bifurcation set and compound eyes in a perturbed cubic Hamiltonian system, J. Li and Z. Lu gevrey character of formal solutions of nonlinear differential equations, X. Liu finite-difference schemes having the correct linear stability properties for all finite step-sizes, R.E. Mickens evolution of surface functionals and differential equations, Y. Li and J.S. Muldowney some remarks on stability properties in functional differential equations with infinite delay, S. Murakami and T. Yoshizawa periodic orbits of the Froeschle's map, A. Olvera and C. Vargas rotated vector fields, global families of limit cycles and Hilbert's 16th problem, L.M. Perko green's matrices and disconjugacy of a vector difference equation, A. Peterson the poincare manifold for the general case of a planar flow, W. Rivera hopf bifurcation in a class of ODE systems related to climate modeling, P.G. Schmidt on second order two point boundary value problems at resonance, M. Hihnila and S. Seikkala separatrix connections of quadratic gradient vector fields, D.S. Shafer. Part contents.</p>	NOT DUPLICATES	193

	doc_1	doc_2	decision	id
cases	authors	• T. Burton		
	title	Linear differential equations with periodic coefficients		
	publication_date	1966-02-01 00:00:00		
	source	SupportedSources.SEMANTIC_SCHOLAR		
	journal			
	volume	17		
	doi	10.1090/S0002-9939-1966-0190442-4		
	urls	• https://www.semanticscholar.org/paper/07cf6a7c4fc000e5c73ba05730acbdcc73589757		
	id	id-1759692961600116179		
	abstract	where X is an n dimensional column vector and A(t) is an nXn matrix whose elements are continuous periodic functions of a real variable t. Epstein [2] has shown that if A(t) is periodic and odd then all solutions of (1) are periodic. Also, using formulae from differential geometry, Epstein obtained a necessary condition that all solutions of (1) be periodic provided that A(t) is 3 X 3, skew symmetric, and periodic. We show that if A(t) is skew symmetric and periodic, then every solution of (1) is almost periodic. This theorem is important for two reasons. First, it is of interest in itself. Second, Epstein has shown that the solutions of (1) depend on those of two systems, one of which is symmetric and the other skew symmetric. The coefficients of the symmetric system will be periodic if the solutions of the skew symmetric system are periodic with the same period as the original system. Since the fundamental solution matrix of (1) can be expressed as X(t) = P(t) Y(t) where P(t) is periodic and Y(t) = exp Dt is the fundamental solution matrix of Y' = D Y with D constant, one would be reluctant to use Epstein's technique of separating (1) into two systems unless he could be sure that both of the resulting systems would have solutions of a correspondingly simple form as that of (1). Our theorem enables us to show that the fundamental solution matrix of the symmetric system can be expressed as F(t) exp Dt where F(t) is almost periodic and D is constant.		

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	doc_1	doc_2	decision	id
cases	authors • Lillo, J.	authors • Cameron, R.	NOT DUPLICATES	195
	title Linear Differential Equations with Almost Periodic Coefficients	title Linear differential equations with almost periodic coefficients		
	publication_date 1959-01-01 00:00:00	publication_date 1938-01-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.CROSSREF		
	journal 	journal 		
	volume 	volume 		
	doi 10.2307/2372849	doi 10.1007/bf02547709		
	urls • http://dx.doi.org/10.2307/2372849	urls • http://www.springerlink.com/index/pdf/10.1007/BF02547709 • http://dx.doi.org/10.1007/bf02547709		
	id id-1230276473464574934	id id8426608568146149857		
	abstract 	abstract 		

	doc_1	doc_2	decision	id
cases	authors • Lillo, J.	authors • Cameron, R.	NOT DUPLICATES	196
	title Linear Differential Equations with Almost Periodic Coefficients	title Linear Differential Equations with Almost Periodic Coefficients		
	publication_date 1959-01-01 00:00:00	publication_date 1936-01-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.CROSSREF		
	journal 	journal 		
	volume 	volume 		
	doi 10.2307/2372849	doi 10.2307/1968684		
	urls • http://dx.doi.org/10.2307/2372849	urls • http://dx.doi.org/10.2307/1968684		
	id id-1230276473464574934	id id-7780517065634213159		
	abstract 	abstract 		

	doc_1	doc_2	decision	id
cases	authors • Lillo, J.	authors • Cameron, R.	NOT DUPLICATES	197
	title Linear Differential Equations with Almost Periodic Coefficients	title Linear differential equations with almost periodic coefficients		
	publication_date 1959-01-01 00:00:00	publication_date 1935-09-01 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.CROSSREF		
	journal 	journal 		
	volume 	volume 		
	doi 10.2307/2372849	doi 10.1215/s0012-7094-35-00124-7		
	urls • http://dx.doi.org/10.2307/2372849	urls • http://dx.doi.org/10.1215/s0012-7094-35-00124-7		
	id id-1230276473464574934	id id4937672250519242781		
	abstract 	abstract 		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• O. A. Veliev	authors <ul style="list-style-type: none">• O. A. Veliev	NOT DUPLICATES	198
	title On the differential operators of odd order with PT-symmetric periodic matrix coefficients	title On the spectrum of the differential operators of even order with periodic matrix coefficients		
	publication_date 2023-03-15 15:38:36+00:00	publication_date 2023-02-23 06:34:46+00:00		
	source SupportedSources.ARXIV	source SupportedSources.ARXIV		
	journal None	journal None		
	volume	volume		
	doi	doi		
	urls <ul style="list-style-type: none">• http://arxiv.org/pdf/2303.08703v1• http://arxiv.org/abs/2303.08703v1• http://arxiv.org/pdf/2303.08703v1	urls <ul style="list-style-type: none">• http://arxiv.org/pdf/2302.11807v1• http://arxiv.org/abs/2302.11807v1• http://arxiv.org/pdf/2302.11807v1		
	id id-4302327637515188860	id id-2245971348873151476		
	abstract In this paper we investigate the spectrum of the differential operators generated by the ordinary differential expression of odd order with PT-symmertic periodic matrix coefficients	abstract In this paper, we consider the band functions, Bloch functions and spectrum of the self-adjoint differential operator L with periodic matrix coefficients. Conditions are found for the coefficients under which the number of gaps in the spectrum of the operator L is finite		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Youjun Liu • Huanhuan Zhao • Jurang Yan 	authors <ul style="list-style-type: none"> • Youjun Liu • Huanhuan Zhao • Jurang Yan 		
	title <p>Existence of nonoscillatory solutions of higher-order neutral differential equations with positive and negative coefficients</p>	title <p>Existence of Nonoscillatory Solutions of Higher-Order Neutral Differential Equations with Distributed Coefficients and Delays</p>		
	publication_date <p>2016-09-22 00:00:00</p>	publication_date <p>2016-08-25 00:00:00</p>		
	source <p>SupportedSources.SEMANTIC_SCHOLAR</p>	source <p>SupportedSources.SEMANTIC_SCHOLAR</p>		
	journal <p>Journal of Inequalities and Applications</p>	journal <p>Discrete Dynamics in Nature and Society</p>		
	volume <p>2016</p>	volume <p>2016</p>		
	doi <p>10.1186/S13660-016-1175-0</p>	doi <p>10.1155/2016/1026726</p>		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/0ae918f369943883d6f61cb7c2df4568677b0433 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/e4b1d1937dfd697f32fca4544170429df71ebef 		
	id <p>id7830815485866481614</p>	id <p>id-7410427195260107179</p>		
	abstract <p>None</p>	abstract <p>We consider the existence of nonoscillatory solutions of higher-order neutral differential equations with distributed coefficients. We use the contraction principle to obtain new sufficient condition for the existence of nonoscillatory solutions.</p>		

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	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• El Hassan Lakhel	authors <ul style="list-style-type: none">• El Hassan Lakhel	NOT DUPLICATES	200
	title Controllability of fractional stochastic neutral functional differential equations driven by fractional Brownian motion with infinite delay	title Controllability of stochastic impulsive neutral functional differential equations driven by fractional Brownian motion with infinite delay		
	publication_date 2016-04-14 09:01:56+00:00	publication_date 2016-02-18 14:14:19+00:00		
	source SupportedSources.ARXIV	source SupportedSources.ARXIV		
	journal None	journal None		
	volume	volume		
	doi	doi		
	urls <ul style="list-style-type: none">• http://arxiv.org/pdf/1604.04079v1• http://arxiv.org/abs/1604.04079v1• http://arxiv.org/pdf/1604.04079v1	urls <ul style="list-style-type: none">• http://arxiv.org/pdf/1602.05809v1• http://arxiv.org/abs/1602.05809v1• http://arxiv.org/pdf/1602.05809v1		
	id id-5321532339477178217	id id-3697004147503138114		
	abstract In this paper we study the controllability of fractional neutral stochastic functional differential equations with infinite delay driven by fractional Brownian motion in a real separable Hilbert space. The controllability results are obtained by using stochastic analysis and a fixed-point strategy. Finally, an illustrative example is provided to demonstrate the effectiveness of the theoretical result.	abstract In this paper we study the controllability results of impulsive neutral stochastic functional differential equations with infinite delay driven by fractional Brownian motion in a real separable Hilbert space. The controllability results are obtained using stochastic analysis and a fixed-point strategy. Finally, an illustrative example is provided to demonstrate the effectiveness of the theoretical result.		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • Hasil, P. • Veselý, M. 	authors <ul style="list-style-type: none"> • Hasil, P. • Veselý, M. 		
	title Non-oscillation of half-linear differential equations with periodic coefficients	title Non-oscillation of perturbed half-linear differential equations with sums of periodic coefficients		
	publication_date 2015-01-01 00:00:00	publication_date 2015-06-20 00:00:00		
	source SupportedSources.CROSSREF	source SupportedSources.CROSSREF		
	journal	journal		
	volume	volume		
	doi 10.14232/ejqtde.2015.1.1	doi 10.1186/s13662-015-0533-4		
	urls <ul style="list-style-type: none"> • http://www.math.u-szeged.hu/ejqtde/p3311.pdf • http://dx.doi.org/10.14232/ejqtde.2015.1.1 	urls <ul style="list-style-type: none"> • http://link.springer.com/content/pdf/10.1186/s13662-015-0533-4.pdf • http://link.springer.com/article/10.1186/s13662-015-0533-4/fulltext.html • http://link.springer.com/content/pdf/10.1186/s13662-015-0533-4 • http://dx.doi.org/10.1186/s13662-015-0533-4 		
	id id5693851441551126129	id id-7545289185686378720		
	abstract	abstract		

NOT DUPLICATES 201

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• O. A. Veliev	authors <ul style="list-style-type: none">• O. A. Veliev	NOT DUPLICATES	202
	title On the Differential Operators with Periodic Matrix Coefficients	title On the Basis Property of the Root Functions of Differential Operators with Matrix Coefficients		
	publication_date 2009-03-04 14:57:29+00:00	publication_date 2009-12-22 08:45:48+00:00		
	source SupportedSources.ARXIV	source SupportedSources.ARXIV		
	journal None	journal None		
	volume	volume		
	doi 10.1155/2009/934905	doi		
	urls <ul style="list-style-type: none">• http://arxiv.org/pdf/0903.0776v1• http://dx.doi.org/10.1155/2009/934905• http://arxiv.org/abs/0903.0776v1• http://arxiv.org/pdf/0903.0776v1	urls <ul style="list-style-type: none">• http://arxiv.org/pdf/0912.4340v1• http://arxiv.org/abs/0912.4340v1• http://arxiv.org/pdf/0912.4340v1		
	id id7283033466969459847	id id1300664816917871793		
	abstract In this article we obtain asymptotic formulas for eigenvalues and eigenfunctions of the operator generated by a system of ordinary differential equations with summable coefficients and quasiperiodic boundary conditions. Then using these asymptotic formulas, we find conditions on the coefficients for which the number of gaps in the spectrum of the self-adjoint differential operator with the periodic matrix coefficients is finite.	abstract We obtain asymptotic formulas for eigenvalues and eigenfunctions of the operator generated by a system of ordinary differential equations with summable coefficients and periodic or antiperiodic boundary conditions. Then using these asymptotic formulas, we find necessary and sufficient conditions on the coefficients for which the system of eigenfunctions and associated functions of the operator under consideration forms a Riesz basis.		

	doc_1	doc_2	decision	id
cases	authors			
	title	36. Periodic Solutions of a Linear Homogeneous System of Differential Equations		
	publication_date	1966-01-01 00:00:00		
	source	SupportedSources.CROSSREF		
	journal			
	volume			
	doi	10.1016/s0076-5392(08)61011-5		
	urls	• http://dx.doi.org/10.1016/s0076-5392(08)61011-5		
	id	id4017916836988590872		
	abstract			
			NOT DUPLICATES	203

	doc_1	doc_2	decision	id
cases	authors			
	title	11. Determination of the Coefficients in the Series Expansion of an Exponential Matrix		
	publication_date	1966-01-01 00:00:00		
	source	SupportedSources.CROSSREF		
	journal			
	volume			
	doi	10.1016/s0076-5392(08)60986-8		
	urls	• http://dx.doi.org/10.1016/s0076-5392(08)60986-8		
	id	id5220517617526932402		
	abstract			

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none">• K. G. Valeev	authors <ul style="list-style-type: none">• K. G. Valeev	NOT DUPLICATES	205
	title On HILL' S method in the theory of linear differential equations with periodic coefficients	title On Hill's method in the theory of linear differential equations with periodic coefficients. Determination of the characteristic exponents		
	publication_date None	publication_date None		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.SEMANTIC_SCHOLAR		
	journal Journal of Applied Mathematics and Mechanics	journal Journal of Applied Mathematics and Mechanics		
	volume 24	volume 25		
	doi 10.1016/0021-8928(60)90003-4	doi 10.1016/0021-8928(61)90078-8		
	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/821609f2d043bf783698090d25823799b66e0262	urls <ul style="list-style-type: none">• https://www.semanticscholar.org/paper/1702bd01e1b5f688a92bf86bbf6ddce4e03e9bf6		
	id id-230268292834728015	id id4013818121864528942		
	abstract None	abstract None		

	doc_1	doc_2	decision	id
cases	authors <ul style="list-style-type: none"> • A. Ardjouni • A. Djoudi 	authors <ul style="list-style-type: none"> • A. Ardjouni • A. Djoudi 	NOT DUPLICATES	206
	title EXISTENCE OF POSITIVE PERIODIC SOLUTIONS FOR TWO KINDS OF NONLINEAR NEUTRAL DIFFERENTIAL EQUATIONS WITH VARIABLE DELAY	title Existence of periodic solutions for first-order totally nonlinear neutral differential equations with variable delay		
	publication_date None	publication_date None		
	source SupportedSources.SEMANTIC_SCHOLAR	source SupportedSources.SEMANTIC_SCHOLAR		
	journal	journal		
	volume	volume 55		
	doi	doi		
	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/f668ff71ee7ddcdfff55efc899a6f8cf31766976 	urls <ul style="list-style-type: none"> • https://www.semanticscholar.org/paper/f24270bd490a57d872c945f1ac076f75dd2a366c 		
	id id1578636586566165509	id id-2929645307784871294		
	abstract <p>In this article we study the existence for of positive periodic solutions for kinds of nonlinear neutral differential equations with variable delay. The main tool employed here is the Krasnoselskii's hybrid fixed point theorem dealing with a sum of two mappings, one is a contraction and the other is completely continuous. The results obtained here generalize the work of Luo, Wang and Shen (13).</p>	abstract <p>We use a modification of Krasnoselskii's fixed point theorem due to Burton (see [Liapunov functionals, fixed points and stability by Krasnoselskii's theorem, Nonlinear Stud. 9 (2002), 181--190], Theorem 3) to show that the totally nonlinear neutral differential equation with variable delay $\begin{aligned} x'(t) = & -a(t)h(x(t)) + c(t)x'(t-g(t))Q'(x(t-g(t))) \\ & + G(t,x(t),x(t-g(t))), \end{aligned}$ has a periodic solution. We invert this equation to construct a fixed point mapping expressed as a sum of two mappings such that one is compact and the other is a large contraction. We show that the mapping fits very nicely for applying the modification of Krasnoselskii's theorem so that periodic solutions exist.</p>		