

cases	doc_1		doc_2		decision	id
					NOT DUPLICATES	498
	authors	<ul style="list-style-type: none"><li>Hiroshi Abe</li></ul>	authors	<ul style="list-style-type: none"><li>Hiroshi Abe</li></ul>		
	title	A Stable Explicit Scheme for Solving Inhomogeneous Constant Coefficients Differential Equation using Green's Function	title	A Stable Explicit Scheme for Solving Non-Homogeneous Constant Coefficients Equation using Green's Function		
	publication_date	2010-11-10 23:35:48+00:00	publication_date	2010-11-07 00:47:11+00:00		
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	doi		doi			
	urls	<ul style="list-style-type: none"><li>http://arxiv.org/pdf/1011.2531v1</li><li>http://arxiv.org/abs/1011.2531v1</li><li>http://arxiv.org/pdf/1011.2531v1</li></ul>	urls	<ul style="list-style-type: none"><li>http://arxiv.org/pdf/1011.1599v2</li><li>http://arxiv.org/abs/1011.1599v2</li><li>http://arxiv.org/pdf/1011.1599v2</li></ul>		
	id	id9133362744751125368	id	id-1071988159295628073		
	abstract	A numerical explicit method to evaluates transient solutions of linear partial differential inhomogeneous equation with constant coefficients is proposed. A general form of the scheme for a specific linear inhomogeneous equation is shown. The method is applied to the wave equation and the diffuse equation and is investigated by simulating simple models. The numerical solutions of the proposed method show good agreement to the exact solutions. Comparing with explicit FDM, FDM shows the instability by the violation of CFL condition whereas the proposed method is always stable irrespective of any time step width.	abstract	A numerical explicit method to evaluates transient solutions of linear partial differential non-homogeneous equation with constant coefficients is proposed.		
	versions		versions			