

OSCILLATION AND BOUNDARY VALUE PROBLEMS IN DIFFERENCE



RELATED BOOK :**Forced oscillation for solutions of boundary value**

In this paper, we obtain the forced oscillation of solutions for certain fractional partial difference equations with two different types of boundary conditions. Our results are based on discrete Gaussian formula and some basic theories of discrete fractional calculus.

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Oscillation theorems for nonlinear fractional difference

Fractional calculus has proved to be valuable tools in describing and solving a large number of problems in various fields of sciences and engineering [1, 2]. Their treatment from the viewpoint of difference equations can additionally open up new perspectives.

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Forced oscillation for solutions of boundary value

Forced oscillation for solutions of boundary value problems of fractional partial difference equations. Authors; Authors and affiliations Pan, Y, Han, Z, Sun, S, Huang, Z: The existence and uniqueness of solutions to boundary value problems of fractional difference equations. Shi, B, Wang, ZC, Yu, JS: Oscillation of nonlinear partial

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Singular Perturbation Analysis of Boundary Value Problems

Abstract. This paper continues a study of a class of boundary-value problems for linear second-order differential-difference equations in which the second-order derivative is multiplied by a small parameter (SIAM J. Appl. Math., 42 (1982), pp. 502-531). The previous paper focused on problems involving boundary and interior layer phenomena.

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Focal boundary value problems for nonlinear difference

JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS 141, 559-567 (1989) Focal Boundary Value Problems for Nonlinear Difference Equations, I JOHNNY HENDERSON Department of Algebra, Combinatorics and Analysis, Auburn University, Auburn, Alabama 36849 Submitted by V. Lakshmikantham Received November 5, 1987 1.

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Singular Perturbation Analysis of Boundary Value Problems

(2004) Numerical analysis of boundary-value problems for singularly perturbed differential-difference equations: small shifts of mixed type with rapid oscillations. Communications in Numerical Methods in Engineering 20 :3, 167-182.

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Existence of Solutions to Boundary Value Problems for a

Consider the existence of solutions to boundary value problem (BVP) for a fourth-order difference equation: satisfying the boundary value conditions where Δ is the forward difference operator denoted as $\Delta u_n = u_{n+1} - u_n$, with u_0, u_1, \dots, u_N

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Singular Perturbation Analysis of Boundary Value Problems

differential-difference equations in which the second-order derivative is multiplied by a small parameter (SIAM J. Appl. Math., 42 (1982), pp. 502-531; 45 (1985), pp. 687-707). The previous papers focused on problems involving boundary and interior layer phenomena, rapid oscillations, and resonance behavior.

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Fundamentals of Differential Equations and Boundary Value

Fundamentals of Differential Equations and Boundary Value Problems Second Edition *4.11 Linear Difference Equations 217 Chapter Summary 225 11.7 Singular Sturm-Liouville Boundary Value Problems 704 11.8 Oscillation and Comparison Theory 713 . Contents xix Chapter Summary 723

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A Method for Reduction of Spurious or Numerical

Keywords spurious or numerical oscillation, Central differencing, Diffuser by moving average, Burgers equation

____ 1. INTRODUCTION In solution of unsteady boundary value problems, the numerical instability and the numerical or spurious oscillation must be avoided. The former was discussed also by the present author [1] recently.

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Boundary Value Problems for Functional Differential Equations

Boundary Value Problems for Neutral Functional Differential Equations S. K. Ntouyas Existence Principles for Nonlinear Operator Equations D. O'Regan Sturmian Theory and Oscillation of a Third Order Linear Difference Equation A. Peterson Multipoint Boundary Value Problems for Functional Differential Equations D. Taunton

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