

# Difference Methods for Initial-Value Problems

Second Edition

Robert D. Richtmyer and K. W. Morton

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# Difference Methods For Initial Value Problems

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## **Difference Methods For Initial Value Problems:**

Difference Methods for Initial-value Problems Robert D. Richtmyer,1957     Difference methods for initial-value problems Robert D. Richtmyer,K. W. Morton,1975     Difference Methods for Initial-value Problems [by] Robert D. Richtmyer [and] K.W. Morton Robert D. Richtmyer,1967     **Difference Methods for Initial Value Problems** Robert D. Richtmyer,2013-09     **Difference Methods for Initial-Value Problems** Robert D. Richtmyer,1964     **Difference Methods for Initial-value Problems** Robert D. Richtmyer,1962     **Difference Methods for Initial Value Problems. Richtmyer** Robert D. Richtmyer,1967     **Difference Methods for Initial-Boundary-Value Problems and Flow Around Bodies** You-lan Zhu,Xi-chang Zhong,Bing-mu Chen,Zuo-min Zhang,2013-06-29 Since the appearance of computers numerical methods for discontinuous solutions of quasi linear hyperbolic systems of partial differential equations have been among the most important research subjects in numerical analysis The authors have developed a new difference method named the singularity separating method for quasi linear hyperbolic systems of partial differential equations Its most important feature is that it possesses a high accuracy even for problems with singularities such as shocks contact discontinuities rarefaction waves and detonations Besides the thorough description of the method itself its mathematical foundation stability convergence theory of difference schemes for initial boundary value hyperbolic problems and its application to supersonic flow around bodies are discussed Further the method of lines and its application to blunt body problems and conical flow problems are described in detail This book should soon be an important working basis for both graduate students and researchers in the field of partial differential equations as well as in mathematical physics     *Difference Methods for Initial-value Problems* Dominick V. Rosato,1967     **Numerical Methods for Initial Value Problems in Ordinary Differential Equations** Simeon Ola Fatunla,2014-05-10 Numerical Method for Initial Value Problems in Ordinary Differential Equations deals with numerical treatment of special differential equations stiff stiff oscillatory singular and discontinuous initial value problems characterized by large Lipschitz constants The book reviews the difference operators the theory of interpolation first integral mean value theorem and numerical integration algorithms The text explains the theory of one step methods the Euler scheme the inverse Euler scheme and also Richardson s extrapolation The book discusses the general theory of Runge Kutta processes including the error estimation and stepsize selection of the R K process The text evaluates the different linear multistep methods such as the explicit linear multistep methods Adams Bashforth 1883 the implicit linear multistep methods Adams Moulton scheme 1926 and the general theory of linear multistep methods The book also reviews the existing stiff codes based on the implicit semi implicit singly diagonally implicit Runge Kutta schemes the backward differentiation formulas the second derivative formulas as well as the related extrapolation processes The text is intended for undergraduates in mathematics computer science or engineering courses andfor postgraduate students or researchers in related disciplines     Difference Methods for Initial Value Problems ,1967     **Difference Methods for**

**Initial Value Problems 2ed** R. D. Richtmyer, K. W. Morton, 1967      Difference Methods for Initial-value Problems. 2nd Ed  
 Robert D. Richtmyer, 1967      **Besov Spaces and Applications to Difference Methods for Initial Value Problems** P.  
 Brenner, V. Thomee, L. B. Wahlbin, 2014-09-01      DIFFERENCE METHODS FOR INITIAL-VALUE PROBLEMS. 2.ED. Robert  
 D. Richtmyer, K. W. Morton, 1967      **Numerical Solutions of Boundary Value Problems for Ordinary Differential  
 Equations** A.K. Aziz, 2014-05-10 Numerical Solutions of Boundary Value Problems for Ordinary Differential Equations covers  
 the proceedings of the 1974 Symposium by the same title held at the University of Maryland Baltimore Country Campus This  
 symposium aims to bring together a number of numerical analysis involved in research in both theoretical and practical  
 aspects of this field This text is organized into three parts encompassing 15 chapters Part I reviews the initial and boundary  
 value problems Part II explores a large number of important results of both theoretical and practical nature of the field  
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 value reaction systems the posteriori error estimates and boundary problem solvers for first order systems based on deferred  
 corrections Part III highlights the practical applications of the boundary value problems specifically a high order finite  
 difference method for the solution of two point boundary value problems on a uniform mesh This book will prove useful to  
 mathematicians engineers and physicists      **Numerical Methods for Two-Point Boundary-Value Problems** Herbert B.  
 Keller, 2018-11-14 Elementary yet rigorous this concise treatment explores practical numerical methods for solving very  
 general two point boundary value problems The approach is directed toward students with a knowledge of advanced calculus  
 and basic numerical analysis as well as some background in ordinary differential equations and linear algebra After an  
 introductory chapter that covers some of the basic prerequisites the text studies three techniques in detail initial value or  
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 with all three techniques and shooting is applied to generalized or nonlinear eigenvalue problems Several other areas of  
 numerical analysis are introduced throughout the study The treatment concludes with more than 100 problems that augment  
 and clarify the text and several research papers appear in the Appendixes      *Besov Spaces and Applications to Difference  
 Methods for Initial Value Problems* P. Brenner, V. Thomee, L.B. Wahlbin, 1975-02-04      Besov Spaces and Applications to  
 Difference Methods for Initial Value Problems P. Brenner, V. Thomee, L.B. Wahlbin, 2006-11-15 a      *Applied Mechanics  
 Reviews*, 1978

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design of a state-feedback control to evaluate the performance of the speed control of DC motor for different applications. The. Precision Speed Control of A DC Motor Using Fuzzy Logic ... Precision Speed Control of A DC Motor Using Fuzzy Logic Controller Optimized by ... Universiti Teknologi Malaysia, ACKNOWLEDGMENT Johor, Malaysia, in 2011. He ... DC Motor Control | Automation & Control Engineering Forum Jun 20, 2022 — I have a 1 HP DC motor that I'm currently manually controlling using a Dayton 1F792 DC Speed Control unit. I want to automate the following ...