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# THE THEORY OF DIFFERENCE SCHEMES

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**V. S. Ryabenki. Translated by E. Godfredsen** Sergei Konstantinovich Godunov, V. S. Rjabenkii, 1964 *Differential Equations, Difference Equations and Matrix Theory* Peter D. Lax, 1957 *Nonstandard Finite Difference Schemes: Methodology And Applications* Ronald E Mickens, 2020-11-11 This second edition of Nonstandard Finite Difference Models of Differential Equations provides an update on the progress made in both the theory and application of the NSFD methodology during the past two and a half decades In addition to discussing details related to the determination of the denominator functions and the nonlocal discrete representations of functions of dependent variables we include many examples illustrating just how this should be done Of real value to the reader is the inclusion of a chapter listing many exact difference schemes and a chapter giving NSFD schemes from the research literature The book emphasizes the critical roles played by the principle of dynamic consistency and the use of sub equations for the construction of valid NSFD discretizations of differential equations [Stability Theory of Finite-difference Schemes for Partial Differential Equations](#) Nigel G. Campbell, 1968 **Stability Theory of Finite-difference Schemes for Partial Differential Equations** Nigel G. Campbell, 1968 *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

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