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STABILITY AND ASYMPTOTIC INTEGRATION 331

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THEOREM 3.1. If $P(\cdot) \in L^1[0, \infty)$, then the solution of (1) is uniformly stable. Furthermore, each solution $x(\cdot) = x(\cdot, t_0, \varphi)$ of (1) satisfies $x(t) \leq \text{constant}$ as $t \rightarrow \infty$.

LEMMA 3.1. If $P(\cdot) \in L^1[0, \infty)$, then any solution $x(\cdot) = x(\cdot, t_0, \varphi)$ of (1)

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Asymptotic stability of system (3) implies that this system admits as positively invariants sets some closed and bounded symmetrical polytopes $S(G, ?)$, with $G \in \mathbb{R}^{s \times n}$, $\text{rank} G = n$, and $? = (s, ?_i) > 0$. Each of

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these polytopes is associated with a polyhedral Lyapunov function (32) of system (3).

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Asymptotic stability means that solutions that start close enough not only remain close enough but also eventually converge to the equilibrium. Exponential stability means that solutions not only converge, but in fact converge faster than or at least as fast as a particular known rate α $\|x(t) - x_e\| \leq \|x(0) - x_e\| e^{-\alpha t}$.

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Lyapunov stability - Wikipedia

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Almost diagonal systems in asymptotic integration - Volume 28 Issue 2 - H. Gingold

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This volume presents several important and recent contributions to the emerging field of fractional differential equations in a self-contained manner. It deals with new results on existence, uniqueness and multiplicity, smoothness, asymptotic development, and stability of solutions. The new topics in the field of fractional calculus include also the Mittag-Leffler and Razumikhin stability, stability of a class of discrete fractional non-autonomous systems, asymptotic integration with a priori given coefficients, intervals of disconjugacy (non-oscillation), existence of L_p solutions for various linear, and nonlinear fractional differential equations.

This book presents the theory of asymptotic integration for both linear differential and difference equations. This type of asymptotic analysis is based on some fundamental principles by Norman Levinson. While he applied them to a special class of differential equations, subsequent work has shown that the same principles lead to asymptotic results for much wider classes of differential and also difference equations. After discussing asymptotic integration in a unified approach, this book studies how the application of these methods provides several new insights and frequent improvements to results found in earlier literature. It then continues with a brief introduction to the relatively new field of asymptotic

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Integration for dynamic equations on time scales. Asymptotic Integration of Fractional Order Series On Complexity Differential and Difference Equations is a self-contained and clearly structured presentation of some of the most important results in asymptotic integration and the techniques used in this field. It will appeal to researchers in asymptotic integration as well to non-experts who are interested in the asymptotic analysis of linear differential and difference equations. It will additionally be of interest to students in mathematics, applied sciences, and engineering. Linear algebra and some basic concepts from advanced calculus are prerequisites.

In the last few decades the theory of ordinary differential equations has grown rapidly under the action of forces which have been working both from within and without: from within, as a development and deepening of the concepts and of the topological and analytical methods brought about by LYAPUNOV, POINCARÉ, BENDIXSON, and a few others at the turn of the century; from without, in the wake of the technological development, particularly in communications, servomechanisms, automatic controls, and electronics. The early research of the authors just mentioned lay in challenging problems of astronomy, but the line of thought thus produced found the most impressive applications in the new fields.

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The body of research now accumulated is overwhelming, and many books and reports have appeared on one or another of the multiple aspects of the new line of research which some authors call "qualitative theory of differential equations". The purpose of the present volume is to present many of the view points and questions in a readable short report for which completeness is not claimed. The bibliographical notes in each section are intended to be a guide to more detailed expositions and to the original papers. Some traditional topics such as the Sturm comparison theory have been omitted. Also excluded were all those papers, dealing with special differential equations motivated by and intended for the applications.

This volume introduces a systematic approach to the solution of some mathematical problems that arise in the study of the hyperbolic-parabolic systems of equations that govern the motions of thermodynamic fluids. It is intended for a wide audience of theoretical and applied mathematicians with an interest in compressible flow, capillarity theory, and control theory. The focus is particularly on recent results concerning nonlinear asymptotic stability, which are independent of assumptions about the smallness of the

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initial data. Of particular interest is the loss of control that sometimes results when steady flows of compressible fluids are upset by large disturbances. The main ideas are illustrated in the context of three different physical problems: (i) A barotropic viscous gas in a fixed domain with compact boundary. The domain may be either an exterior domain or a bounded domain, and the boundary may be either impermeable or porous. (ii) An isothermal viscous gas in a domain with free boundaries. (iii) A heat-conducting, viscous polytropic gas.

The thesis discusses stability of procedures based on linear computing formulas for numerical integration of an ordinary first-order differential equation. The theorems are proved: (1) If the procedure is asymptotically stable it is stable for small positive step size if the Lipschitz number is negative; (2) Relative stability always exists if asymptotic stability does; (3) If the Lipschitz constant is positive, there is an integration procedure based on a linear computing formula of order one, which is, however, not asymptotically stable. An algorithm for the general case is included, written in the Algol 60 language.

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The chapters in this volume deal with four fields with deep historical roots that remain active areas reasearch: partial differential equations, variational methods, fluid mechanics, and thermodynamics. The collection is intended to serve two purposes: First, to honor James Serrin, in whose work the four fields frequently interacted; and second, to bring together work in fields that are usually pursued independently but that remain remarkably interrelated. Serrin's contributions to mathematical analysis and its applications are fundamental and include such theorems and methods as the Gilbarg-Serrin theorem on isoated singularities, the Serrin symmetry theorem, the Alexandrov-Serrin moving-plane technique, The Peletier-Serrin uniqueness theorem, and the Serrin integal of the calculus of variations. Serrin has also been noted for the elegance of his mathematical work and for the effectiveness of his teaching and collaborations.

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