



Mathematics Applied to Deterministic Problems in the Natural Sciences



C. C. Lin
L. A. Segel

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Strogatz, 2018-09-21 This textbook is aimed at newcomers to nonlinear dynamics and chaos especially students taking a first course in the subject The presentation stresses analytical methods concrete examples and geometric intuition The theory is developed systematically starting with first order differential equations and their bifurcations followed by phase plane analysis limit cycles and their bifurcations and culminating with the Lorenz equations chaos iterated maps period doubling renormalization fractals and strange attractors

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Mathematical Theory of Reliability Richard E. Barlow, Frank Proschan, 1996-01-01 This monograph presents a survey of mathematical models useful in solving reliability problems It includes a detailed discussion of life distributions corresponding to wearout and their use in determining maintenance policies and covers important topics such as the theory of increasing decreasing failure rate distributions optimum maintenance policies and the theory of coherent systems The emphasis throughout the book is on making minimal assumptions and only those based on plausible physical considerations so that the resulting mathematical deductions may be safely made about a large variety of commonly occurring reliability situations The first part of the book is concerned with component reliability while the second part covers system reliability including problems that are as important today as they were in the 1960s The enduring relevance of the subject of reliability and the continuing demand for a graduate level book on this topic are the driving forces behind its re publication

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fundamentals of the theory of ordinary differential equations

Asymptotic Approximations of Integrals R.

Wong,2001-01-01 Asymptotic methods are frequently used in many branches of both pure and applied mathematics and this classic text remains the most up to date book dealing with one important aspect of this area namely asymptotic approximations of integrals In Asymptotic Approximations of Integrals all results are proved rigorously and many of the approximation formulas are accompanied by error bounds A thorough discussion on multidimensional integrals is given and references are provided The book contains the distributional method which is not available elsewhere Most of the examples in this text come from concrete applications Since its publication twelve years ago significant developments have occurred in the general theory of asymptotic expansions including smoothing of the Stokes phenomenon uniform exponentially improved asymptotic expansions and hyperasymptotics These new concepts belong to the area now known as exponential asymptotics Expositions of these new theories are available in papers published in various journals but not yet in book form Audience this book can be used either as a text for graduate students in mathematics physics and engineering or as a reference for research workers in these fields

Nonlinear Programming Olvi L. Mangasarian,1994-01-01 This reprint of the 1969

book of the same name is a concise rigorous yet accessible account of the fundamentals of constrained optimization theory Many problems arising in diverse fields such as machine learning medicine chemical engineering structural design and airline scheduling can be reduced to a constrained optimization problem This book provides readers with the fundamentals needed to study and solve such problems Beginning with a chapter on linear inequalities and theorems of the alternative basics of convex sets and separation theorems are then derived based on these theorems This is followed by a chapter on convex functions that includes theorems of the alternative for such functions These results are used in obtaining the saddlepoint optimality conditions of nonlinear programming without differentiability assumptions

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