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This, the second edition of the hugely practical reference and handbook describes kinematic, static and dynamic Global Positioning System theory and applications. It is primarily based upon source-code descriptions of the KSGSoft program developed by the author and his colleagues and used in the AGMASCO project of the EU. This is the first book to report the unified GPS data processing method and algorithm that uses equations for selectively eliminated equivalent observations. In December 1994 Professor Enok Palm celebrated his 70th birthday and retired after more than forty years of service at the University of Oslo. In view of his outstanding achievements as teacher and scientist a symposium entitled "Waves and Nonlinear Processes in Hydrodynamics" was held in his honour from the 17th to the 19th November 1994 in the locations of The Norwegian Academy of Science and Letters in Oslo. The topics of the symposium were chosen to cover Enok's broad range of scientific work, interests and accomplishments: Marine hydrodynamics, nonlinear wave theory, nonlinear stability, thermal convection and geophysical fluid dynamics, starting with Enok's present activity, ending with the field where he began his career. This order was followed in the symposium program. The symposium had two opening lectures. The first looked back on the history of hydrodynamic research at the University of Oslo. The second focused on applications of hydrodynamics in the offshore industry today. Symmetry is a property which occurs throughout nature and it is therefore natural that symmetry should be considered when attempting to model nature. In many cases, these models are also nonlinear and it is the study of nonlinear symmetric models that has been the basis of much recent work. Although systematic studies of nonlinear problems may be traced back at least to the pioneering contributions of Poincaré, this remains an area with challenging problems for mathematicians and scientists. Phenomena whose models exhibit both symmetry and nonlinearity lead to problems which are challenging and rich in complexity, beauty and utility. In recent years, the tools provided by group theory and representation theory have proven to be highly effective in treating nonlinear problems involving symmetry. By these means, highly complex situations may be decomposed into a number of simpler ones which are already understood or are at least easier to handle. In the realm of numerical approximations, the systematic exploitation of symmetry via group representation theory is even more recent. In the hope of stimulating interaction and acquaintance with results and problems in the various fields of applications, bifurcation theory and numerical analysis, we organized the conference and workshop Bifurcation and Symmetry: Cross Influences between Mathematics and Applications during June 2-7,8-14, 1991 at the Philipps University of Marburg, Germany. This book is a collection of selected papers presented at the last Scientific Computing in Electrical Engineering (SCEE) Conference, held in Sinaia, Romania, in 2006. The series of SCEE conferences aims at addressing mathematical problems which have a relevance to industry, with an emphasis on modeling and numerical simulation of electronic circuits, electromagnetic fields but also coupled problems and general mathematical and computational methods. Until recently there was no uniform stability theory. Different approaches to stability problems had been developed in the different branches of mechanics. In the field of elasticity, it was mainly the so called static method and energy method which were used, while in the field of dynamics it was the kinetic method, which found its perfect expression in the theory of Liapunov. During the last few decades there has been a rapid development in the general theory of stability, stimulated, for example, by the investigations of H. ZIEGLER on elastic systems subject to non-conservative loads, and by the problems arising in aeroelasticity which are closely related to those introduced by ZIEGLER. The need was felt for kinetic methods which could also be used in investigating the stability of deformable systems. Efforts were made to adapt such methods, already known and developed in the stability theory of rigid systems, for application in the stability theory of continuous systems. During the last ten years interest was focused mainly on the application of a generalized Liapunov method to stability problems of continuous systems. All this was done in attempts to unify the various approaches to stability theory. It was with the idea of encouraging such a tendency, establishing to what extent a uniform physical and mathematical foundation already existed for stability theory in all branches of mechanics, and stimulating the further development of a common stability theory, that a IUTAM-Symposium was devoted to this topic. The great number of varied approaches to hydrodynamic stability theory appear as a bulk of results whose classification and discussion are well-known in the literature. Several books deal with one aspect of this theory alone (e.g. the linear case, the influence of temperature and magnetic field, large classes of globally stable fluid motions etc.). The aim of this book is to provide a complete mathematical treatment of hydrodynamic stability theory by combining the early results of engineers and applied mathematicians with the recent achievements of pure mathematicians. In order to ensure a more operational frame to this theory I have briefly outlined the main results concerning the stability of the simplest types of flow. I have attempted several definitions of the stability of fluid flows with due consideration of the connections between them. On the other hand, as the large number of initial and boundary value problems in hydrodynamic stability theory requires appropriate treatments, most of this book is devoted to the main concepts and methods used in hydrodynamic stability theory. Open problems are expressed in both mathematical and physical terms. First published in 1988. Routledge is an imprint of Taylor & Francis, an informa company. The term "turbulence" is used for a large variety of dynamical phenomena of fluids in motion whenever the details of the flow appear to be random and average properties are of primary interest. Just as wide ranging are the theoretical methods that have been applied towards a better understanding of fluid turbulence. In this book a number of these methods are described and applied to a broad range of problems from the transition to turbulence to asymptotic turbulence when the inertial part of the spectrum is fully developed. Statistical as well as nonstatistical treatments are presented, but a complete coverage of the subject is not attempted. The book will be of interest to scientists and engineers who wish to familiarize themselves with modern developments in theories of turbulence. The fact that the properties of turbulent fluid flow are addressed from very different points of view makes this volume rather unique among presently available books on turbulence. A discussion of developments in the field of bifurcation theory, with emphasis on symmetry breaking and its interrelationship with singularity theory. The notions of universal solutions, symmetry breaking, and unfolding of singularities are discussed in detail. The book not only reviews recent mathematical developments but also provides a stimulus for further research in the field. Brought to you by the global authority in infusion therapy, the Fourth Edition for the Certified Registered Nurse Infusion (CRNI®) examination. The broad understanding of the specialty, serving both continuing education and professional development needs. The completely revised Fourth Edition covers the latest technological advances in infusion therapy and reflects the recent expansion of the practice of infusion nursing. A detailed outline format makes it easy to retrieve and review essential facts. Organized in nine core content areas, each chapter serves as the basis for the development of test questions. This book discusses the physical mechanisms that drive counterflows, examining how they emerge, develop, become double and multiple counterflows and comprise both global and local circulations. Counterflows play an important role in nature and technology. A natural example is the Gulf Stream and the opposite flow in the ocean depths. Technological applications include hydrocyclones, vortex tubes and vortex combustors. These elongated counterflows are wildly turbulent but survive intense mixing, a seeming paradox. Local counterflows, whose spatial extent is small compared with that of surrounding flows, occur behind bluff bodies and in swirling streams. The latter are often referred to as vortex breakdown bubbles, which occur in tornadoes and above delta wings. Most scale counterflows are cosmic bipolar jets. Most miniature counterflows occur in capillary menisci of electrosprays and fuel atomisers. This book contains the manuscripts of the papers delivered at the International Symposium on Synergetics held at SchloB Elmau, Bavaria, Germany, from April 30 until May 5, 1979. This conference followed several previous ones (Elmau 1972, Sicily 1974, Elmau 1977). This time the subject of the symposium was "pattern formation by dynamic systems and pattern recognition". The meeting brought together scientists from such diverse fields as mathematics, physics, chemistry, biology, history as well as experts in the fields of pattern recognition and associative memory. When I started this type of conference in 1972 it appeared to be a daring enterprise. Indeed, we began to explore virgin land of science: the systematic study of cooperative effects in physical systems far from equilibrium and in other disciplines. Though these meetings were attended by scientists from quite different disciplines, a basic concept and even a common language were found from the very beginning. The idea that there exist profound analogies in the behaviour of large classes of complex systems, though the systems themselves may be quite different, proved to be most fruitful. I was delighted to see that over the past one or two years quite similar conferences were now held in various places all over the world. The inclusion of problems of pattern recognition at the present meeting is a novel feature, however. A comprehensive collection of robust methods for the detection of pesticide compounds or their metabolites useful in food, environmental, and biological monitoring, and in studies of exposure via food, water, air, and the skin or lungs. The readily reproducible methods range from gas and liquid chromatography coupled to mass spectrometry detection and other classic detectors, to capillary electrophoresis and immunochemical or radioimmunoassay methods. The authors have focused on extraction and cleanup procedures, in order to develop and optimize more fully automated and miniaturized methods, including solid-phase extraction, solid-phase microextraction, microwave-assisted extraction, and on-line tandem liquid chromatography (LC/LC) trace enrichment, among others. The protocols offer step-by-step laboratory instructions, an introduction outlining the principles behind the technique, lists of the necessary equipment and reagents, and tips on troubleshooting and avoiding known pitfalls. The series is edited by the head coaches of China's IMO National Team. Each volume, catering to different grades, is contributed by the senior coaches of the IMO National Team. The Chinese edition has won the award of Top 50 Most Influential Educational Brands in China. The series is created in line with the mathematics cognition and intellectual development levels of the students in the corresponding grades. All hot mathematics topics of the competition are included in the volumes and are organized into chapters where concepts and methods are gradually introduced to equip the students with necessary knowledge until they can finally reach the competition level. In each chapter, well-designed problems including those collected from real competitions are provided so that the students can apply the skills and strategies they have learned to solve these problems. Detailed solutions are provided selectively. As a feature of the series, we also include some solutions generously offered by the members of Chinese national team and national training team. This book was conceived during the Workshop "Calibration and Orientation of Cameras in Computer Vision" at the XVIIth Congress of the ISPRS (International Society of Photogrammetry and Remote Sensing), in July 1992 in Washington, D. C. The goal of this workshop was to bring photogrammetry and computer vision experts together in order to exchange ideas, concepts and approaches in camera calibration and orientation. These topics have been addressed in photogrammetry research for a long time, starting in the second half of the 19th century. Over the years standard procedures have been developed and implemented, in particular for metric cameras, such that in the photogrammetric community such issues were considered as solved problems. With the increased use of non-metric cameras (in photogrammetry they are revealingly called "amateur" cameras), especially CCD cameras, and the exciting possibilities of acquiring long image sequences quite effortlessly and processing image data automatically, online and even in real-time, the need to take a new and fresh look at various calibration and orientation issues became obvious. Here most activities emerged through the computer vision community, which was somewhat unaware as to what had already been achieved in photogrammetry. On the other hand, photogrammetrists seemed to ignore the new and interesting studies, in particular on the problems of orientation, that were being performed by computer vision experts. Psychology Library Editions: Comparative Psychology (16 Volume set) brings together a number of titles which explore animal behaviour and learning, some in isolation but mostly comparing it with human behaviour. Research in this area looks at many different issues, using various methods and examines species from insects to primates. The series of previously out-of-print titles, originally published between 1928 and 1997, with the majority from the 1970s and 1980s, includes contributions from many highly respected authors. This SME classic is both a reference book for the working engineer and a textbook for the mining student. This hardcover edition gives a brief history of surface mining and a general overview of the state of surface mining today--topics range from production and productivity to technological developments and trends in equipment. This extremely useful text takes the approach that exploration and mining geologists must be expert in a number of fields, including basic finance and economics, logistics, and pragmatic prospecting. Readers will find material on all these topics and more. The book's nine chapters include: Introduction, Exploration and Geology Techniques, Ore Reserve Estimation, Feasibility Studies and Project Financing, Planning and Design of Surface Mines, Mine Operations, Mine Capital and Operating Costs, Management and Organization, and Case Studies. The book is fully indexed. This book contains a series of papers on some of the longstanding research problems of geometry, calculus of variations, and their applications. It is suitable for advanced graduate students, teachers, research mathematicians, and other professionals in mathematics. This work is a step towards a unified and complete understanding of psychology and the law. It recognizes that crimes such as murder, non-lethal violence, rape, and theft are manifestations of evolutionarily recurrent selection when they gave individuals an advantage in competition for resources. This volume provides bibliographic and textual information which gives a real understanding of the 40 ore deposits in Western and West Central Europe. Each deposit is introduced by a selected bibliography listing the most important literature. This is followed by a detailed discussion covering geological characteristics including the position, grade and tonnage of the ore produced together with potential reserve, the stratigraphy and structure of the rocks of the district, and the characteristics and age of the ore body. The book also includes a section of maps, pin-pointing the most important mineral deposits in each region, making this work a valuable reference source for all those working in the fields of ore-deposit geology and exploration. This book offers advanced students, in 7 volumes, successively characterization tools phases, the study of all types of phase, liquid, gas and solid, pure or multi-component, process engineering, chemical and electrochemical equilibria, the properties of surfaces and phases of small sizes. Macroscopic and microscopic models are in turn covered with a constant correlation between the two scales. Particular attention is given to the rigor of mathematical developments. This book focuses on solid phases. Symmetry plays an important role in theoretical physics, applied analysis, classical differential equations, and bifurcation theory. Although numerical analysis has incorporated aspects of symmetry on an ad hoc basis, there is now a growing collection of numerical analysts who are currently attempting to use symmetry groups and representation theory as fundamental tools in their work. This book contains the proceedings of an AMS-SIAM Summer Seminar in Applied Mathematics, held in 1992 at Colorado State University. The seminar, which drew about 100 scientists from around the world, was intended to stimulate the systematic incorporation of symmetry and group theoretical concepts into numerical methods. The papers in this volume have been refereed and will not be published elsewhere. Precursor to the author's Essay architect, Essay apprentice presents a writing program for students who are unable to write a five-paragraph essay or just need extra help with the essentials of good writing. Builds the basic foundation of writing through simple, yet practical, activities and helps students learn the step-by-step process of creative writing. Includes creative writing exercises, sentence construction activities, paragraph construction activities, preparation for formal writing, model and non-model essay evaluation, preparation for individual writing and resources, tips and hints. Designed to meet the Common Core requirements of the University of London Syllabus B, and other similar schemes offered by the major boards, this book incorporates both modern and effective traditional approaches to mathematical understanding. Worked examples and exercises support the text. An ELBS/LPBB edition is available. An edited volume on energy poverty. Nearly one quarter of humanity still lacks access to electricity. Close to one third rely on traditional fuels like firewood and cow dung for cooking, at great cost to their health and welfare. The chapters explain the scope of the problem and suggest practical ways to fix it. This series of reference books describes sciences of different eras in and around geodesy with independent chapters. Each chapter covers an individual era and describes the history, theory, objective, technology, development, highlights of research and applications. In addition, problems as well as future directions are discussed. The subjects of this reference book include Absolute and Relative Gravimetry, Adaptively Robust Kalman Filters with Applications in Navigation, Airborne Gravity Field Determination, Analytic Orbit Theory, Deformation and Tectonics, Earth Rotation, Equivalence of GPS Algorithms and its Inference, Marine Geodesy, Satellite Laser Ranging, Superconducting Gravimetry and Synthetic Aperture Radar Interferometry. These are individual subjects in and around geodesy and are for the first time combined in a unique book which may be used for teaching or for learning basic principles of many subjects related to geodesy. The material is suitable to provide a general overview of geodetic sciences for high-level geodetic researchers, educators as well as engineers and students. Some of the chapters are written to fill literature blanks of the related areas. Most chapters are written by well-known scientists throughout the world in the related areas. The chapters are ordered by their titles. Summaries of the individual chapters and introductions of their authors and co-authors are as follows. Chapter 1 "Absolute and Relative Gravimetry" provides an overview of the gravimetric methods to determine most accurately the gravity acceleration at given locations. Written by academics with more than 30 years experience teaching physics and material science, this book will act as a one-stop reference on functional materials. Offering a complete coverage of functional materials, this unique book deals with all three states of the material, providing an insightful overview of this subject not before seen in other texts. Includes solved examples, a number of exercises and answers to the exercises. Aims to promote understanding of the subject as a basis for higher studies. The use of mathematically complicated quantum mechanical equations will be minimized to aid understanding. For Instructors & Students: Visit Wiley's Higher Education Site for: Supplements Online Resources Technology Solutions Instructors may request an evaluation copy for this title. An alternative title for this book would perhaps be Nonlinear Analysis, Bifurcation Theory and Differential Equations. Our primary objective is to discuss those aspects of bifurcation theory which are particularly meaningful to differential equations. To accomplish this objective and to make the book accessible to a wider we have presented in detail much of the relevant background audience, material from nonlinear functional analysis and the qualitative theory of differential equations. Since there is no good reference for some of the material, its inclusion seemed necessary. Two distinct aspects of bifurcation theory are discussed-static and dynamic. Static bifurcation theory is concerned with the changes that occur in the structure of the set of zeros of a function as parameters in the function are varied. If the function is a gradient, then variational techniques play an important role and can be employed effectively even for global problems. If the function is not a gradient or if more detailed information is desired, the general theory is usually local. At the same time, the theory is constructive and valid when several independent parameters appear in the function. In differential equations, the equilibrium solutions are the zeros of the vector field. Therefore, methods in static bifurcation theory are directly applicable. Hydrodynamic stability is of fundamental importance in the mechanics of fluids and is mainly concerned with the problem of the transition to turbulence. This book is devoted to publication of original research papers, research-expository and survey articles with an emphasis on unsolved problems and open questions in the mathematical modeling and computational aspects of hydrodynamic stability. Review chapters on the mathematical modeling and numerical simulation aspects of hydrodynamic stability, the physical background, and the limitations of the modeling and simulation procedures, due to particular mathematical or computational methods used, are included. This book will be appropriate for use in research and in research-related courses on the subject. It includes chapters on bifurcations in fluid systems, flow patterns, channel flows, non-parallel shear flows, thin-film flows, strong viscous shear flows, Görtler vortices, bifurcations in convection, wavy film flows and boundary layers. Contents: The Linear Stability of Görtler Vortices Revisited (A Bottaro & P Luchini) The Sequence-of-Bifurcations Approach Towards an Understanding of Complex Flows (F H Busse & R M Clever) Derivation and Simulations of Evolution Equations of Wavy Film Flows (A L Frenkel & K Indreshkumar) Instabilities Due to Soret Diffusion Coupled to the Morphology of a Solid-Liquid Interface (L Hadji) The Instability of Finite Amplitude Waves in Strong Viscid and Inviscid Shear (W R C Phillips) Nonlinear Stability Analysis and Modeling for Convective Flows (D N Riahi) Modeling and Simulation for Primary Instabilities in Shear Flows (D N Riahi) Görtler Vortices with System Rotation (A Zebib et al.) Readership: Scientists, engineers and students in mechanics, physics and mathematics. keywords: Stability; Hydrodynamic Stability; Flow Stability; Flow Instability; Stability Modeling; Stability Simulation; Nonlinear Hydrodynamics; Modeling in Stability; Simulation in Stability

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