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Popular Science ,1948-08 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better *Adaptive High-order Methods In Computational Fluid Dynamics* Zhi Jian Wang, 2011-03-24 This book consists of important contributions by world renowned experts on adaptive high order methods in computational fluid dynamics CFD It covers several widely used and still intensively researched methods including the discontinuous Galerkin residual distribution finite volume differential quadrature spectral volume spectral difference PNPM and correction procedure via reconstruction methods The main focus is applications in aerospace engineering but the book should also be useful in many other engineering disciplines including mechanical chemical and electrical engineering Since many of these methods are still evolving the book will be an excellent reference for researchers and graduate students to gain an understanding of the state of the art and remaining challenges in high order CFD methods

Mathematical Approaches for Emerging and Reemerging Infectious Diseases: An Introduction Carlos Castillo-Chavez, 2002-05-02 This book grew out of the discussions and presentations that began during the Workshop on Emerging and Reemerging Diseases May 17 21 1999 sponsored by the Institute for Mathematics and its Application IMA at the University of Minnesota with the support of NIH and NSF The workshop started with a two day tutorial session directed

at ecologists epidemiologists immunologists mathematicians and scientists interested in the study of disease dynamics The core of this first volume Volume 125 covers tutorial and research contributions on the use of dynamical systems deterministic discrete delay PDEs and ODEs models and stochastic models in disease dynamics The volume includes the study of cancer HIV pertussis and tuberculosis Beginning graduate students in applied mathematics scientists in the natural social or health sciences or mathematicians who want to enter the fields of mathematical and theoretical epidemiology will find this book useful

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Large-Scale Inverse Problems and Quantification of Uncertainty Lorenz Biegler, George Biros, Omar Ghattas, Matthias Heinkenschloss, David Keyes, Bani Mallick, Luis Tenorio, Bart van Bloemen Waanders, Karen Willcox, Youssef Marzouk, 2011-06-24 This book focuses on computational methods for large scale statistical inverse problems and provides an introduction to statistical Bayesian and frequentist methodologies Recent research advances for approximation methods are discussed along with Kalman filtering methods and optimization based approaches to solving inverse problems The aim is to cross fertilize the perspectives of researchers in the areas of data assimilation statistics large scale optimization applied and computational mathematics high performance computing and cutting edge applications The solution to large scale inverse problems critically depends on methods to reduce computational cost Recent research approaches tackle this challenge in a variety of different ways Many of the computational frameworks highlighted in this book build upon state of the art methods for simulation of the forward problem such as fast Partial Differential Equation PDE solvers reduced order models and emulators of the forward problem stochastic spectral approximations and ensemble

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Biomat 2013 - International Symposium On Mathematical And Computational Biology

Rubem P Mondaini, 2014-04-02 This is a book of a series on interdisciplinary topics on the Biological and Mathematical Sciences The chapters correspond to selected papers on special research themes which have been presented at BIOMAT 2013 International Symposium on Mathematical and Computational Biology which was held in the Fields Institute for Research in Mathematical Sciences Toronto Ontario Canada on November 04 08 2013 The treatment is both pedagogical and advanced in order to motivate research students as well as to fulfill the requirements of professional practitioners There are comprehensive reviews written by prominent scientific leaders of famous research groups

Algorithms and Theory of Computation Handbook, Volume 2 Mikhail J. Atallah, Marina Blanton, 2009-11-20 Algorithms and Theory of Computation Handbook Second Edition Special Topics and Techniques provides an up to date compendium of fundamental computer science topics and techniques It also illustrates how the topics and techniques come together to deliver efficient solutions to important practical problems Along with updating and revising many of

The Shock and Vibration Digest , 1990

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Modeling and Identification of Linear Parameter-Varying Systems Roland Toth, 2010-06-13 Through the past 20 years the framework of Linear Parameter Varying LPV systems has become a promising system theoretical approach to handle the control of mildly nonlinear and especially position dependent systems which are common in mechatronic applications and in the process industry The birth of this system class was initiated by the need of engineers to achieve better performance for nonlinear and time varying dynamics common in many industrial applications than what the classical framework of Linear Time Invariant LTI control can provide However it was also a primary goal to preserve simplicity and reuse the powerful LTI results by extending them to the LPV case The progress continued according to this philosophy and LPV control has become a well established field with many promising applications Unfortunately modeling of LPV systems especially based on measured data which is called system identification has seen a limited development since the birth of the framework Currently this bottleneck of the LPV framework is halting the transfer of the LPV theory into industrial use Without good models that fulfill the expectations of the users and without the understanding how these models correspond to the dynamics of the application it is difficult to design high performance LPV control solutions This

book aims to bridge the gap between modeling and control by investigating the fundamental questions of LPV modeling and identification. It explores the missing details of the LPV system theory that have hindered the formulation of a well established identification framework. *Index of Conference Proceedings Received* British Library. Document Supply Centre, 1987

Control of Cyber-Physical Systems Danielle C. Tarraf, 2013-06-30 Cyber physical systems CPS involve deeply integrated tightly coupled computational and physical components. These systems spanning multiple scientific and technological domains are highly complex and pose several fundamental challenges. They are also critically important to society's advancement and security. The design and deployment of the adaptable reliable CPS of tomorrow requires the development of a basic science foundation synergistically drawing on various branches of engineering, mathematics, computer science and domain specific knowledge. This book brings together 19 invited papers presented at the Workshop on Control of Cyber Physical Systems hosted by the Department of Electrical Computer Engineering at The Johns Hopkins University in March 2013. It highlights the central role of control theory and systems thinking in developing the theory of CPS in addressing the challenges of cyber trust and cyber security and in advancing emerging cyber physical applications ranging from smart grids to smart buildings, cars and robotic systems. *Bulletin of the Philosophical Society of Washington* Philosophical Society of Washington (Washington, D.C.), 1892 Vols 1-14-16 include the society's Proceedings 1871-1905-1961

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