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This book focuses on the latest developments in detonation engines for aerospace propulsion, with a focus on the rotating detonation engine (RDE). State-of-the-art research contributions are collected from international leading researchers devoted to the pursuit of controllable detonations for practical detonation propulsion. A system-level design of novel detonation engines, performance analysis, and advanced experimental and numerical

methods are covered. In addition, the world's first successful sled demonstration of a rocket rotating detonation engine system and innovations in the development of a kilohertz pulse detonation engine (PDE) system are reported. Readers will obtain, in a straightforward manner, an understanding of the RDE & PDE design, operation and testing approaches, and further specific integration schemes for diverse applications such as rockets for space propulsion and turbojet/ramjet engines for air-breathing propulsion. Detonation Control for Propulsion: Pulse Detonation and Rotating Detonation Engines provides, with its comprehensive coverage from fundamental detonation science to practical research engineering techniques, a wealth of information for scientists in the field of combustion and propulsion. The volume can also serve as a reference text for faculty and graduate students and interested in shock waves, combustion and propulsion. This two-volume set LNCS 9225 and LNCS 9226 constitutes - in conjunction with the volume LNAI 9227 - the refereed proceedings of the 11th International Conference on Intelligent Computing, ICIC 2015, held in Fuzhou, China, in August 2015. The total of 191 full and 42 short papers presented in the three ICIC 2015 volumes was carefully reviewed and selected from 671 submissions. The papers are organized in topical sections such as evolutionary computation and learning; compressed sensing, sparse coding and social computing; neural networks, nature inspired computing and optimization; pattern recognition and signal processing; image processing; biomedical informatics theory and methods; differential evolution, particle swarm optimization and niche technology; intelligent computing and knowledge discovery and data mining; soft computing and machine learning; computational biology, protein structure and function prediction; genetic algorithms; artificial bee colony algorithms; swarm intelligence and optimization; social computing; information security; virtual reality and human-computer interaction; healthcare informatics theory and methods; unsupervised learning; collective intelligence; intelligent computing in robotics; intelligent computing in communication networks; intelligent control and automation; intelligent data analysis and prediction; gene expression array analysis; gene regulation modeling and analysis; protein-protein interaction prediction; biology inspired computing and optimization; analysis and visualization of large biological data sets; motif detection; biomarker discovery; modeling; simulation; and optimization of biological systems; biomedical data modeling and mining;

intelligent computing in biomedical signal/image analysis; intelligent computing in brain imaging; neuroinformatics; cheminformatics; intelligent computing in computational biology; computational genomics; special session on biomedical data integration and mining in the era of big data; special session on big data analytics; special session on artificial intelligence for ambient assisted living; and special session on swarm intelligence with discrete dynamics. The work of an eminent botanist, this illustrated 1902 publication explores the natural history and common uses of wood. The Sailing Navy, 1775-1854, the first volume in the definitive five-volume U.S. Navy Warship series, comprehensively details all aspects of the ships that sailed in the nascent stages of the U.S. Navy. From its beginnings as battlers of Barbary Coast pirates, to challenging the awesome might of the Royal Navy in the War of 1812, to the historic blockade that proved instrumental in winning the Mexican-American War, the sailing ships foreshadowed the daring and resolve of the later U.S. Navy. With its all-inclusive lists of data, The Sailing Navy is the most in-depth resource available on the ships that shaped the early history of the U.S. Navy. Each volume in the U.S. Navy Warship series represents the most meticulous scholarship for its particular era, providing an authoritative account of every ship in the history of the U. S. Navy from its first incarnation as the Continental Navy to its present position as one of the world's most formidable naval superpowers. Featuring convenient, easy-to-read tabular lists, every book in the series includes an abundance of illustrations, some never before published, along with figures for actions fought, damages sustained, casualties suffered, prizes taken, and ships sunk, ultimately making the series an indispensable reference tool for maritime buffs and military historians alike. A further article about Paul Silverstone and the Navy Warships series can be found at: http ://www.thejc.com/home.aspxParentId=m11s18s180&SecId=180&AId =58892&ATypeId=1 This carefully edited book combines symbolic and sub-symbolic techniques to construct more robust and reliable problem solving models. This volume focused on "Hybrid Artificial Intelligence Systems" contains a collection of papers that were presented at the 2nd International Workshop on Hybrid Artificial Intelligence Systems, held in 12 - 13 November, 2007, Salamanca, Spain. Biological and natural processes have been a continuous source of inspiration for the sciences and engineering. For instance, the work of Wiener in cybernetics was influenced by feedback control processes observable in biological systems; McCulloch and

Pitts description of the artificial neuron was instigated by biological observations of neural mechanisms; the idea of survival of the fittest inspired the field of evolutionary algorithms and similarly, artificial immune systems, ant colony optimisation, automated self-assembling programming, membrane computing, etc. also have their roots in natural phenomena. The second International Workshop on Nature Inspired Cooperative Strategies for Optimization (NICSO), was held in Acireale, Italy, during November 8-10, 2007. The aim for NICSO 2007 was to provide a forum were the latest ideas and state of the art research related to cooperative strategies for problem solving arising from Nature could be discussed. The contributions collected in this book were strictly peer reviewed by at least three members of the international programme committee, to whom we are indebted for their support and assistance. The topics covered by the contributions include several well established nature inspired techniques like Genetic Algorithms, Ant Colonies, Artificial Immune Systems, Evolutionary Robotics, Evolvable Systems, Membrane Computing, Quantum Computing, Software Self Assembly, Swarm Intelligence, etc. Geologists and geographers study how to develop how and where karst develops and how sinkholes form, but engineers must use this information to develop karst terrane. Over the past ten years, these multidisciplinary conferences on the applied aspects of karst hydrogeology and engineering have been successful in bringing together engineers, geologists, other scientists and government regulators who must safely establish human infrastructure on karst terrane whilst protecting the environment. The essences of these conferences has always been communciation between geologists and engineers with an emplasis on practical applications and case studies. This text contains the proceedings of the fifth conference on karst geohazards. It presents 65 papers that cover topics such as: groundwater contamination through sinkholes and the karst surface; stormwater drainage and flooding problems; and foundation considerations and improvements in karst. The papers published in this book were presented and dis cussed on occasion of the celebration of Albert Kervyn de Lettenhove's retirement on 29-30 May 1986. This conference was made feasible through the participation of a large au dience and the generous financial support of the Commission of the European Communities. The sessions were organised under three topics, as are the papers in this book. The first session, chaired by Massimo Russo, Director-General, Commission ofthe European Com munities was devoted to

an evaluation of past and current debates of central macro-economic problems, those of growth and business cycle stabilization. The second session, chaired by Jean Godeaux, Governor of Belgium's National Bank, looked at innovations in the conduct of monetary pol icy and the opportunities offered and problems associated with innovations in fiancial markets. The last session, chaired by Baron Michel Woitrin, formerly Professor of Eco nomics and Head Administrator of the Universite Catholi que de Louvain, contains several empirical analyses and pol icy proposals. I 30 years ago growth theory was a very promising research field, at the center of macroeconomics and macroeconomics was at the center of economics. Robert Solow -one of the major contributors to growth theory -reexamines the perti nence of that body of theory to problems of our times. A. Steinherr and D. Weiserbs (eds), Employment and Growth: Issues for the 1980s. ISBN 90·247·3514·9. Biological and other natural processes have always been a source of inspiration for computer science and information technology. Many emerging problem solving techniques integrate advanced evolution and cooperation strategies, encompassing a range of spatio-temporal scales for visionary conceptualization of evolutionary computation. The previous editions of NICSO were held in Granada, Spain (2006), Acireale, Italy (2007), Tenerife, Spain (2008), and again in Granada in 2010. NICSO evolved to be one of the most interesting and profiled workshops in nature inspired computing. NICSO 2011 has offered an inspiring environment for debating the state of the art ideas and techniques in nature inspired cooperative strategies and a comprehensive image on recent applications of these ideas and techniques. The topics covered by this volume include Swarm Intelligence (such as Ant and Bee Colony Optimization), Genetic Algorithms, Multiagent Systems, Coevolution and Cooperation strategies, Adversarial Models, Synergic Building Blocks, Complex Networks, Social Impact Models, Evolutionary Design, Self Organized Criticality, Evolving Systems, Cellular Automata, Hybrid Algorithms, and Membrane Computing (P-Systems). Electron Microscopy in Material Science covers the proceedings of the International School of Electron Microscopy held in Erice, Itsaly, in 1970. The said conference is intended to the developments of electron optics and electron microscopy and its applications in material science. The book is divided into four parts. Part I discusses the impact of electron microscopy in the science of materials. Part II covers topics such as electron optics and instrumentation; geometric electron optics and its problems; and

special electron microscope specimen stages. Part III explains the theory of electron diffraction image contrast and then elaborates on related areas such as the application of electron diffraction and of electron microscopy to radiation; computing methods; and problems in electron microscopy. Part IV includes topics such as the transfer of image information in the electron microscope; phase contrast microscopy; and the magnetic phase contrast. The text is recommended for electron microscopists who are interested in the application of their field in material science, as well as for experts in the field of material science and would like to know about the importance of electron microscopy.