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The Old Faith and the New  
Guide to Best Practices for Ocean Acidification Research and Data Reporting  
High Performance Computing Systems and Applications

### **The New York Times Practical Guide to Practically Everything**

This is one in a series of manuals for car or motorcycle owners. Each book provides information on routine maintenance and servicing, with tasks described and photographed in a step-by-step sequence so that even a novice can do the work.

### **The First Book of Samuel**

This timely work is a collection of papers presented at the XIth international congress of the International Association of Plant Tissue Culture & Biotechnology. It continues the tradition of the IAPTC&B in publishing the proceedings of its congresses. The work is an up-to-date report on the most significant advances in plant tissue culture and biotechnology as presented by leading international scientists. It will be crucial reading for agricultural scientists, among others.

### **Chilton Labor Guide**

### **Global Supply Chain and Operations Management**

The Boron '97 meeting was a great success in summarising all recent developments in basic and applied research on boron's function, especially in plants. New techniques have since been developed and new insight has been gained into the role of boron in plant and animal metabolism. Nevertheless, there were still lots of open questions. The aim of the present workshop held in Bonn as a satellite meeting to the International Plant Nutrition Colloquium was thus to gather all actual information which has been gained since the Boron '97 meeting and to compile knowledge, both from animal and plant sciences. Furthermore, applied aspects had to be addressed too, as there is an increasing awareness of

boron deficiencies even in crops such as wheat, which have formerly not been considered as responsive to boron application. Genetic differences in boron demand and efficiency within one species are a further important topic which has gained importance since the 1997 meeting. More in-depth knowledge on the mechanisms of boron efficiency are required as an increased efficiency will be one major possibility to maintain and improve crop yields for resource-poor farmers. Nevertheless, it has also clearly been shown that an adequate supply of boron is needed to obtain high yields of crops with a high quality, and that a sustainable agriculture has to provide an adequate boron supply to compensate for inevitable losses through leaching (especially in the humid tropics and temperate regions) and for the boron removal by the crop.

## **Cancer Metabolomics 2018**

German philosopher and radical theologian David Friedrich Strauss (1808-1874) distinguished himself as one of Europe's most controversial biblical critics and as an intellectual martyr for freethought.

## **Production Wine Analysis**

This book is a printed edition of the Special Issue "Dietary Supplements" that was published in Nutrients

## **Lemon-Aid New Cars 2001**

Rufus of Ephesus' treatise On Melancholy represents perhaps the most influential medical monograph from the late first century AD, since his notion of melancholy links two diverse aspects: black bile as a cause for madness and depression and as a sign of intellectual genius. Rufus combines concepts of melancholy developed in the Aristotelian philosophy with concepts of famous physicians such as Hippocrates and Diocles. His ideas strongly influenced subsequent generations of physicians, and especially Galen, and dominated discourses on the topic during the Middle Ages and the Renaissance. Moreover, the reception of Rufus' concepts was not limited to the Western world; in medieval Muslim culture, in particular, his work enjoyed great fame and favor, and many intellectuals read it eagerly. In this volume, the Greek, Latin and Arabic fragments of this work, lost in the original, have been collected for the first time. Arabic sources in particular yield hitherto unknown fragments, thus allowing for new interpretations of this work. The English introduction, translation and commentary reconstruct the main arguments of this important treatise, enabling the interested scholar to obtain easy access to it. Leading scholars contributed interpretative essays which investigate Rufus and his ideas about melancholy in antiquity, the Middle Ages, the Renaissance and the early modern period from different vantage points, including history, philosophy, literature, art history and psychiatry.

## **Biotechnology and Sustainable Agriculture 2006 and Beyond**

Unlike most biotechnology textbooks, Dr. David P. Clark's Biotechnology approaches modern biotechnology from a molecular basis, which grew out of the

increasing biochemical understanding of physiology. Using straightforward, less-technical jargon, Clark manages to introduce each chapter with a basic concept that ultimately evolves into a more specific detailed principle. This up-to-date text covers a wide realm of topics, including forensics and bioethics, using colorful illustrations and concise applications. This book will help readers understand molecular biotechnology as a scientific discipline, how the research in this area is conducted, and how this technology may impact the future. · Up-to-date text focuses on modern biotechnology with a molecular foundation · Basic concepts followed by more detailed, specific applications · Clear, color illustrations of key topics and concepts · Clearly written without overly technical jargon or complicated examples

### **Auto Repair For Dummies**

SCIENCE AND EMPIRES: FROM THE INTERNATIONAL COLLOQUIUM TO THE BOOK  
Patrick PETITJEAN, Catherine JAMI and Anne Marie MOULIN  
The International Colloquium "Science and Empires - Historical Studies about Scientific Development and European Expansion" is the product of an International Colloquium, "Sciences and Empires - A Comparative History of Scientific Exchanges: European Expansion and Scientific Development in Asian, African, American and Oceanian Countries". Organized by the REHSEIS group (Research on Epistemology and History of Exact Sciences and Scientific Institutions) of CNRS (National Center for Scientific Research), the colloquium was held from 3 to 6 April 1990 in the UNESCO building in Paris. This colloquium was an idea of Professor Roshdi Rashed who initiated this field of studies in France some years ago, and proposed "Sciences and Empires" as one of the main research programmes for the The project to organize such a colloquium was a bit REHSEIS group. of a gamble. Its subject, reflected in the title "Sciences and Empires", is not a currently-accepted sub-discipline of the history of science; rather, it refers to a set of questions which found autonomy only recently. The terminology was strongly debated by the participants and, as is frequently suggested in this book, awaits fuller clarification.

### **Histories of the Borneo Environment**

#### **Acute Medicine**

In light of the tremendous changes that have come to the island of Borneo in recent decades, this volume takes a detailed historical look at the Borneo environment from native, colonial and national perspectives. It examines change and continuity in the economic, political and social dimensions of human-environment interactions. Reflecting the increasingly multidisciplinary nature of environmental history, the book brings together an international group of historians, anthropologists, geographers and social foresters, all looking through a historical lens at the environment in the Malaysian states of Sabah and Sarawak, and the Indonesian province of Kalimantan and Brunei. Drawing on extensive archival research and fieldwork, these ten original contributions encompass eleven centuries of history on Borneo, examining interrelated topics that include long-distance trade, conservation, land tenure, resource access, property rights,

perceptions of the environment, migration, and development policy and practice. The chapters in this volume are extensively revised versions of selected papers presented at an international seminar on "Environmental change in native and colonial histories of Borneo: Lessons from the past, prospects for the future" held in Leiden under the auspices of the International Institute for Asian Studies.

### **Biotechnology**

This textbook presents global supply chain and operations management from a comprehensive perspective, combining value creation networks and interacting processes. It focuses on the operational roles in the networks and presents the quantitative and organizational methods needed to plan and control the material, information and financial flows in the supply chain. Each chapter of the book starts with an introductory case study. Numerous examples from various industries and services help to illustrate the key concepts. The book explains how to design operations and supply networks and how to incorporate suppliers and customers. As matching supply and demand is a core aspect of tactical planning, the book focuses on it before turning to the allocation of resources for fulfilling customer demands. Providing readers with a working knowledge of global supply chain and operations management, this textbook can be used in core, special and advanced classes. Therefore, the book targets a broad range of students and professionals involved with supply chain and operations management. Special focus is directed at bridging theory and practice.

### **From Lanka Eastwards**

Auto Repair For Dummies, 2nd Edition (9781119543619) was previously published as Auto Repair For Dummies, 2nd Edition (9780764599026). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. The top-selling auto repair guide--400,000 copies sold--now extensively reorganized and updated Forty-eight percent of U.S. households perform at least some automobile maintenance on their own, with women now accounting for one third of this \$34 billion automotive do-it-yourself market. For new or would-be do-it-yourself mechanics, this illustrated how-to guide has long been a must and now it's even better. A complete reorganization now puts relevant repair and maintenance information directly after each automotive system overview, making it much easier to find hands-on fix-it instructions. Author Deanna Sclar has updated systems and repair information throughout, eliminating discussions of carburetors and adding coverage of hybrid and alternative fuel vehicles. She's also revised schedules for tune-ups and oil changes, included driving tips that can save on maintenance and repair costs, and added new advice on troubleshooting problems and determining when to call in a professional mechanic. For anyone who wants to save money on car repairs and maintenance, this book is the place to start. Deanna Sclar (Long Beach, CA), an acclaimed auto repair expert and consumer advocate, has contributed to the Los Angeles Times and has been interviewed on the Today show, NBC Nightly News, and other television programs.

### **Automotive Development Processes**

The studies included in this volume, written by experts in a wide range of disciplines, focus on disparate aspects of the Kakawin Ramayana and the constellation of cultural phenomena revolving around it, providing the reader with a key to the understanding of the rich Old Javanese textual heritage and the transcultural intellectual dynamics that contributed to shaping the cultural heritage of Indonesia up to the present.

## **World Population Crisis**

This handbook offers an ideal reference for individuals and organizations involved with the production of food, from both agriculture and horticulture. Designed to be accessible for those who normally speak or read English as their second language, it offers thorough explanations and numerous cross references to the terminology, acronyms and technologies used. The book answers basic questions about how food is produced from plants and aims to demystify the subject of growing food. The focus is firmly on the technical aspects of food crops, animal husbandry, agrochemicals and genetic engineering are only briefly mentioned.

## **Renault Mégane Service and Repair Manual**

A single-volume how-to reference to a broad range of key subjects features authoritative essays and advice on everything from personal finance and legal matters to home maintenance and gardening, in a guide that includes thorough indexing and subjects organized into such categories as Health and Fitness, Food and Drink, Travel, Everyday Science, Home and Garden, and more. 150,000 first printing.

## **Acute Stroke Management in the Era of Thrombectomy**

### **Car-sharing**

The metabolomics approach, defined as the study of all endogenously-produced low-molecular-weight compounds, appeared as a promising strategy to define new cancer biomarkers. Information obtained from metabolomic data can help to highlight disrupted cellular pathways and, consequently, contribute to the development of new-targeted therapies and the optimization of therapeutics. Therefore, metabolomic research may be more clinically translatable than other omics approaches, since metabolites are closely related to the phenotype and the metabolome is sensitive to many factors. Metabolomics seems promising to identify key metabolic pathways characterizing features of pathological and physiological states. Thus, knowing that tumor metabolism markedly differs from the metabolism of normal cells, the use of metabolomics is ideally suited for biomarker research. Some works have already focused on the application of metabolomic approaches to different cancers, namely lung, breast and liver, using urine, exhaled breath and blood. In this Special Issue we contribute to a more complete understanding of cancer disease using metabolomics approaches.

## **Medicinal Plants and Fungi: Recent Advances in Research and**

## **Development**

### **Automotive Brake Manual**

The way plants grow and develop organs significantly impacts the overall performance and yield of crop plants. The basic knowledge now available in plant development has the potential to help breeders in generating plants with defined architectural features to improve productivity. Plant translational research effort has steadily increased over the last decade due to the huge increase in the availability of crop genomic resources and Arabidopsis-based sequence annotation systems. However, a consistent gap between fundamental and applied science has yet to be filled. One critical point often brought up is the unreadiness of developmental biologists on one side to foresee agricultural applications for their discoveries, and of the breeders to exploit gene function studies to apply to candidate gene approaches when advantageous on the other. In this book, both developmental biologists and breeders make a special effort to reconcile research on the basic principles of plant development and organogenesis with its applications to crop production and genetic improvement. Fundamental and applied science contributions intertwine and chase each other, giving the reader different but complementary perspectives from only apparently distant corners of the same world.

## **Growing Food**

### **Science and Empires**

RNAs form complexes with proteins and other RNAs. The RNA-infrastructure represents the spatiotemporal interaction of these proteins and RNAs in a cell-wide network. RNA Infrastructure and Networks brings together these ideas to illustrate the scope of RNA-based biology, and how connecting RNA mechanisms is a powerful tool to investigate regulatory pathways. This book is but a taste of the wide range of RNA-based mechanisms that connect in the RNA infrastructure.

### **On Yuan Chwang's Travels in India, 629-645 A.D.**

This book introduces the reader to synthetic or artificial seeds, which refer to alginate encapsulated somatic embryos, vegetative buds or any other micropropagules that can be used as seeds and converted into plantlets after propagating under in vitro or in vivo conditions. Moreover, synthetic seeds retain their potential for regeneration even after low-temperature storage. The production of synthetic or artificial seeds using micropropagules opens up new vistas in agricultural biotechnology. Encapsulated propagules could be used for in vitro regeneration and mass multiplication at reasonable cost. In addition, these propagules may be used for germplasm preservation of elite plant species and the exchange of plant materials between national and international laboratories. This book offers state-of-the-art findings on methods, applications and prospects of synthetic or artificial seeds.

## **Toward Better and Safer Schools**

This handbook, structured to facilitate use by policy makers, practitioners, school board members and school staff, contains three parts. Part I presents practical information and an action plan for implementing school improvement and delinquency prevention measures. Chapters 1 and 2 focus on how delinquency affects the U.S. educational system, and on establishing a rationale for school-based delinquency prevention policies and practices. Chapters 3 through 5 present a six-step process to support local boards in selecting non-punitive approaches to discipline and to delinquency prevention, particularly early prevention programs. The process provides for choosing a focus for change, assessing a school's weaknesses and strengths, setting goals and objectives, developing an action plan, implementing chosen strategies, and gauging progress toward improvement. Part II is a compendium of more than 45 in-school improvement and delinquency prevention program models that are currently being implemented in public schools throughout the U.S. This part functions partly as a how-to manual for practitioners, and partly as a resource guide to a network of innovators and experts. Part III, a more extensive resource and reference guide, may be used to assist in planning and evaluating delinquency prevention programs; it includes an annotated list of recommended books, articles, readings, theme-related periodicals and congressional hearings, selected media aids, technical assistance sources, databases and clearinghouses, and development resources. An appendix contains examples of behavioral contracts between students, parents, and schools. (Author/KH)

## **Overthrow**

The night that changed everything!

## **RNA Infrastructure and Networks**

## **On Melancholy**

## **Preface to Plato**

## **The Conversion of India**

Chitosan is a linear polysaccharide commercially produced by the deacetylation of chitin. It is non-toxic, biodegradable, biocompatible, and acts as a bioadhesive with otherwise unstable biomolecules - making it a valuable component in the formulation of biopharmaceutical drugs. Chitosan-Based Systems for Biopharmaceuticals provides an extensive overview of the application of chitosan and its derivatives in the development and optimisation of biopharmaceuticals. The book is divided in four different parts. Part I discusses general aspects of chitosan and its derivatives, with particular emphasis on issues related to the development of biopharmaceutical chitosan-based systems. Part II deals with the use of chitosan

and derivatives in the formulation and delivery of biopharmaceuticals, and focuses on the synergistic effects between chitosan and this particular subset of pharmaceuticals. Part III discusses specific applications of chitosan and its derivatives for biopharmaceutical use. Finally, Part IV presents diverse viewpoints on different issues such as regulatory, manufacturing and toxicological requirements of chitosan and its derivatives related to the development of biopharmaceutical products, as well as their patent status, and clinical application and potential. Topics covered include: chemical and technological advances in chitins and chitosans useful for the formulation of biopharmaceuticals physical properties of chitosan and derivatives in sol and gel states absorption promotion properties of chitosan and derivatives biocompatibility and biodegradation of chitosan and derivatives biological and pharmacological activity of chitosan and derivatives biological, chemical and physical compatibility of chitosan and biopharmaceuticals approaches for functional modification or crosslinking of chitosan use of chitosan and derivatives in conventional biopharmaceutical dosage forms manufacture techniques of chitosan-based microparticles and nanoparticles for biopharmaceuticals chitosan and derivatives for biopharmaceutical use: mucoadhesive properties chitosan-based systems for mucosal delivery of biopharmaceuticals chitosan-based delivery systems for mucosal vaccination chitosan-based nanoparticulates for oral delivery of biopharmaceuticals chitosan-based systems for ocular delivery of biopharmaceuticals chemical modification of chitosan for delivery of DNA and siRNA target-specific chitosan-based nanoparticle systems for nucleic acid delivery functional PEGylated chitosan systems for biopharmaceuticals stimuli-sensitive chitosan-based systems for biopharmaceuticals chitosan copolymers for biopharmaceuticals application of chitosan for anti-cancer biopharmaceutical delivery chitosan-based biopharmaceuticals scaffolds in tissue engineering and regenerative medicine wound healing properties of chitosan and its use in wound dressing biopharmaceuticals toxicological properties of chitosan and derivatives for biopharmaceutical applications regulatory status of chitosan and derivatives patentability and intellectual property issues quality control and good manufacturing practice preclinical and clinical use of chitosan and derivatives for biopharmaceuticals Chitosan-Based Systems for Biopharmaceuticals is an important compendium of fundamental concepts, practical tools and applications of chitosan-based biopharmaceuticals for researchers in academia and industry working in drug formulation and delivery, biopharmaceuticals, medicinal chemistry, pharmacy, bioengineering and new materials development.

## **Chitosan-Based Systems for Biopharmaceuticals**

This book contains a compilation of the revolution of mechanical thrombectomy (MT) in the treatment of strokes. The initial chapters summarize information about the best medical management of acute ischemic stroke, imaging modalities and patient selection for MT. The book then focuses on the nuances of MT, providing detailed information about the best approaches for anesthesia during MT, access, intra-arterial thrombolysis, recent devices and catheters and technical pitfalls of MT. A specific chapter is dedicated to MT in the venous system. This is followed by a chapter about the most common complications of MT and post-procedural care of these patients. The last chapter covers different aspects of acute stroke care and MT in the developing world. The authors of this book comprise of a

multidisciplinary group of world experts in the field and were encouraged to include teaching cases to deliver a book with a practical approach. Acute Stroke Management in the Era of Thrombectomy is intended for all healthcare providers who care for patients with stroke; with special emphasis for the proceduralists who are interested in technical tips to improve outcomes and minimize complications.

### **Synthetic Seeds**

Acute Medicine 2e is a current and concise guide to hospital emergency medicine for registrars, junior doctors and medical students working on the wards. This new edition has been comprehensively revised and updated to incorporate the latest treatment guidelines. It has been substantially rewritten and streamlined to enable the reader to access the pertinent information even more quickly. It is not just a list of instructions, but contains pathophysiology and useful clinical pearls: \* detailed management of acute medical and surgical emergencies, including in pregnancy \* general ward management issues \* descriptions of key procedures \* normal laboratory values \* emergency drug formulary Acute Medicine 2e is available in two formats (the content is exactly the same in both): - A pocket-sized black and white paperback (ISBN 9781907904912) - A spiral bound, larger format, full colour version (ISBN 9781911510086) From reviews of the first edition: "This new book by Dr O'Kane is a very useful and interesting book directed towards Medical registrars but also with many positive features for anyone from Medical Student to Consultants [It] works through groups of emergencies according to speciality and organ grouping. This is helpful as it enables the reader to link the different differentials together well. It also tries to signpost all the different conditions in relation to the Acute Medicine and General Internal Medicine curriculums. There is also an excellent section on fluid prescription, outlining what each fluid option contains along with potential fluid prescriptions in relation to the daily needs of the human body. Each clinical problem is presented in a clear and logical format, beginning with the things to ask or think about when receiving a referral - much as junior doctors would do in a real clinical situation. The book also includes an excellent 'general management' section, which covers important aspects of the assessment of mental capacity and considerations to make when discharging a patient - things which are often poorly taught in other settings. All of the clinical procedures are described in some level of detail - not enough to learn to do the procedure but enough to signpost as well as getting the reader to think about why it is needed and any associated risks." - Journal for Acute Medicine, October 2015 "O'Kane's Acute Medicine 2015 is a fantastic text for any doctor regardless of their grade. However, it is of particular use to the junior hospital doctor. The book covers a huge array of pathology and knowledge in a succinct and accessible way with easy to use chapters with superb explanations throughout. I am currently working in A+E and have found this book invaluable. In particular the chapters covering procedures and the excellent formulary have helped me on several occasions. All of this is accentuated by the size of the book, which is genuinely pocket sized. This book is an essential text for all junior doctors." - A junior hospital doctor

### **Molecular Profiling**

## **Waking Up Pregnant**

The next revolution in molecular medicine is the application of molecular profiling to individualized patient therapy. Molecular profiling technology has advanced dramatically, particularly in the field of cancer tissue biomarkers. It is now possible to gather complex genomic and proteomic information from a routine clinical needle biopsy or surgical specimen. In *Molecular Profiling : Methods and Protocols*, expert researchers in the field focus on the entire process from discovery to commercialization, with practical guides that are not limited to experimental methods. Written in the highly successful *Methods in Molecular Biology*<sup>TM</sup> series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, as well as essays and guidelines for grants, patents, and commercialization of products related to molecular profiling. Authoritative and practical, *Molecular Profiling: Methods and Protocols* seeks to aid scientists in understanding the latest advancements in genomics, proteomics, imaging, and bioinformatics.

## **The Book of the Farm**

Professional technicians have relied on the Chilton Labor Guide estimated repair times for decades. This latest edition expands on that reliability by including technical hotline feedback and research from professional labor experts. The labor times reflect actual vehicle conditions found in the aftermarket, including rust, wear and grime. Available in both hardcover and CD-ROM, this completely revised manual provides thousands of labor times for 1981 through current year domestic and imported vehicles. All times reflect technicians' use of aftermarket tools and training.

## **Plant Development and Organogenesis**

This text is designed to acquaint the reader with the commonly used procedures of juice and wine analysis as they are generally practiced in the industry, and as they are taught in the Department of Enology at California State University, Fresno. It is assumed that the reader has a basic preparation in the fields of chemistry and microbiology. In developing material for this text, the authors have emphasized analyses as they would be carried out in a production laboratory. Realizing that different laboratories have different analytical capabilities, personnel as well as equipment, we have in many instances provided several different approaches to the same analysis. Throughout this book we have attempted to give special attention to practical considerations and the importance of these analyses in the total spectrum of winery operations. We hope the book's format will satisfy the interests of laboratory personnel as well as winemakers. The process of making wine involves a series of concerns for the winemaker and staff of a winery. The first concerns are viticultural. Upon arrival of the fruit, its quality is assessed, grapes are processed and fermentation is begun. Almost immediately, and in many instances simultaneously, chemical and microbiological stability of the young and/or aging wine become important. Finally, problems do occur on occasion, and a number of what may be considered remedial techniques can be employed to

produce an acceptable product.

## **Boron in Plant and Animal Nutrition**

### **Dietary Supplements**

The global crisis the automotive industry has slipped into over the second half of 2008 has set a fierce spotlight not only on which cars are the right ones to bring to the market but also on how these cars are developed. Be it OEMs developing new models, suppliers integrating themselves deeper into the development processes of different OEMs, analysts estimating economical risks and opportunities of automotive investments, or even governments creating and evaluating scenarios for financial aid for suffering automotive companies: At the end of the day, it is absolutely indispensable to comprehensively understand the processes of automotive development – the core subject of this book. Let's face it: More than a century after Carl Benz, Wilhelm Maybach and Gottlieb Daimler developed and produced their first motor vehicles, the overall concept of passenger cars has not changed much. Even though components have been considerably optimized since then, motor cars in the 21st century are still driven by combustion engines that transmit their propulsive power to the road surface via gearboxes, transmission shafts and wheels, which together with spring-damper units allow driving stability and ride comfort. Vehicles are still navigated by means of a steering wheel that turns the front wheels, and the required control elements are still located on a dashboard in front of the driver who operates the car sitting in a seat.

### **The Old Faith and the New**

This book highlights the latest international research on different aspects of medicinal plants and fungi. Studies over the last decade have demonstrated that bioactive compounds isolated from medicinal fungi have promising antitumor, cardiovascular, immunomodulatory, anti-allergic, anti-diabetic, and hepatoprotective properties. In the light of these studies, the book includes chapters (mostly review articles) by eminent researchers from twelve countries across the globe working in different disciplines of medicinal plants and fungi. It discusses topics such as the prevention of major neurodegenerative and neurotoxic mechanisms by *Centella asiatica*; the medicinal properties and therapeutic applications of several mushrooms species found in different parts of the world; and fungal endophytes as a source of bioactive metabolites including anticancer and cardioprotective agents. There are also chapters on strategies for identifying bioactive secondary metabolites of fungal origin; the use of genomic information to explore the biotechnological potential of medicinal mushrooms; and solid state fermentation of agro-industrial and forestry residues for the production of medicinal mushrooms. It is a valuable resource for the researchers, professionals and students working in the area of medicinal plants and fungi.

### **Guide to Best Practices for Ocean Acidification Research and Data Reporting**

Offers a narrative history of the role of the U.S. in a series of coups, revolutions, and invasions that toppled fourteen foreign governments, from the overthrow of the Hawaiian monarchy in 1893 to the 2003 war in Iraq, and examines the sometimes disastrous long-term repercussions of such operations. Reprint.

## **High Performance Computing Systems and Applications**

High Performance Computing Systems and Applications contains a selection of fully refereed papers presented at the 14th International Conference on High Performance Computing Systems and Applications held in Victoria, Canada, in June 2000. This book presents the latest research in HPC Systems and Applications, including distributed systems and architecture, numerical methods and simulation, network algorithms and protocols, computer architecture, distributed memory, and parallel algorithms. It also covers such topics as applications in astrophysics and space physics, cluster computing, numerical simulations for fluid dynamics, electromagnetics and crystal growth, networks and the Grid, and biology and Monte Carlo techniques. High Performance Computing Systems and Applications is suitable as a secondary text for graduate level courses, and as a reference for researchers and practitioners in industry.

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