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Cryptocurrency Master  
Digital Marketing PDF eBook  
Federal Activities Inventory Reform Act of 1998  
Maize Kernel Development  
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MATHKNOW  
DNA Electrophoresis Protocols for Forensic Genetics  
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Scientific and Technical Aerospace Reports  
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Frontiers and Challenges in Warm Dense Matter  
Nurturing Dreams  
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## HILLARY EMILIANO

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Cryptocurrency Master Weinheim, Federal Republic of Germany ; Deerfield Beach, FL : VCH  
A fascinating collection of letters and documents concerning the relationship between the Italian navigator Toscanelli and the explorer Christopher Columbus, edited and annotated by the renowned French historian and bibliographer Henry Vignaud. This book sheds new light on the early voyages of Columbus and the intellectual and cultural milieu of 15th-century Europe. An essential read for students of history and exploration. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work is in the "public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

### **Digital Marketing PDF eBook** National Geographic Books

The first premise of this book is that farmers need access to options for improving their situation. In agricultural terms, these options might be management alternatives or different crops to grow, that can stabilize or increase household income, that reduce soil degradation and dependence on off-farm inputs, or that exploit local market opportunities. Farmers need a facilitating environment, in which affordable credit is available if needed, in which policies are conducive to judicious management of natural resources, and in which costs and prices of production are stable. Another key ingredient of this facilitating environment is information: an understanding of which options are viable, how these operate at the farm level, and what their impact may be on the things that farmers perceive as being important. The second premise is that systems analysis and simulation have an important role to play in fostering this understanding of options, traditional field experimentation being time-consuming and costly. This book summarizes the activities of the International Benchmark Sites Network for Agrotechnology Transfer (IBSNAT) project, an international initiative funded by the United States Agency for International Development (USAID). IBSNAT was an attempt to demonstrate the effectiveness of understanding options through systems analysis and simulation for the ultimate benefit of farm households in the tropics and subtropics. The idea for the book was first suggested at one of the last IBSNAT group meetings held at the University of Hawaii in 1993.

### **Federal Activities Inventory Reform Act of 1998** CABI

The definitive guide to the critical issue of slope stability and safety *Soil Strength and Slope Stability*, Second Edition presents the latest thinking and techniques in the assessment of natural and man-made slopes, and the factors that cause them to survive or crumble. Using clear, concise language

and practical examples, the book explains the practical aspects of geotechnical engineering as applied to slopes and embankments. The new second edition includes a thorough discussion on the use of analysis software, providing the background to understand what the software is doing, along with several methods of manual analysis that allow readers to verify software results. The book also includes a new case study about Hurricane Katrina failures at 17th Street and London Avenue Canal, plus additional case studies that frame the principles and techniques described. Slope stability is a critical element of geotechnical engineering, involved in virtually every civil engineering project, especially highway development. *Soil Strength and Slope Stability* fills the gap in industry literature by providing practical information on the subject without including extraneous theory that may distract from the application. This balanced approach provides clear guidance for professionals in the field, while remaining comprehensive enough for use as a graduate-level text. Topics include: Mechanics of soil and limit equilibrium procedures Analyzing slope stability, rapid drawdown, and partial consolidation Safety, reliability, and stability analyses Reinforced slopes, stabilization, and repair The book also describes examples and causes of slope failure and stability conditions for analysis, and includes an appendix of slope stability charts. Given how vital slope stability is to public safety, a comprehensive resource for analysis and practical action is a valuable tool. *Soil Strength and Slope Stability* is the definitive guide to the subject, proving useful both in the classroom and in the field.

### *Maize Kernel Development* CRC Press

This handbook introduces the basic principles and fundamentals of cyber security towards establishing an understanding of how to protect computers from hackers and adversaries. The highly informative subject matter of this handbook, includes various concepts, models, and terminologies along with examples and illustrations to demonstrate substantial technical details of the field. It motivates the readers to exercise better protection and defense mechanisms to deal with attackers and mitigate the situation. This handbook also outlines some of the exciting areas of future research where the existing approaches can be implemented. Exponential increase in the use of computers as a means of storing and retrieving security-intensive information, requires placement of adequate security measures to safeguard the entire computing and communication scenario. With the advent of Internet and its underlying technologies, information security aspects are becoming a prime concern towards protecting the networks and the cyber ecosystem from variety of threats, which is illustrated in this handbook. This handbook primarily targets professionals in security, privacy and trust to use and improve the reliability of businesses in a distributed manner, as well as computer scientists and software developers, who are seeking to carry out research and develop software in information and cyber security. Researchers and advanced-level students in computer science will also benefit from this reference.

### **Pediatric Endodontics** CRC Press

Data driven control and learning has been developed quickly both in theory and applications recently The deep involvement of information science in practical processes poses enormous

challenges to the existing control science and engineering due to their size, distributed nature and complexity. Modeling these processes accurately using first principles or identification is almost impossible although these plants produce huge amount of operation data in every moment. The high tech hardware, software and the cloud computing enable us to perform complex real time computation, which makes implementation of data driven control and method for these complex practical plants possible. It would be very significant if we can learn the systems behaviors, discover the relationship of system variables by making full use of on line or off line process data, to directly design controller, predict and assess system states, make decisions, perform real time optimization and conduct fault diagnosis.

MATHKNOW Springer Science & Business Media

*Model Free Adaptive Control: Theory and Applications* summarizes theory and applications of model-free adaptive control (MFAC). MFAC is a novel adaptive control method for the unknown discrete-time nonlinear systems with time-varying parameters and time-varying structure, and the design and analysis of MFAC merely depend on the measured input and output data of the controlled plant, which makes it more applicable for many practical plants. This book covers new concepts, including pseudo partial derivative, pseudo gradient, pseudo Jacobian matrix, and generalized Lipschitz conditions, etc.; dynamic linearization approaches for nonlinear systems, such as compact-form dynamic linearization, partial-form dynamic linearization, and full-form dynamic linearization; a series of control system design methods, including MFAC prototype, model-free adaptive predictive control, model-free adaptive iterative learning control, and the corresponding stability analysis and typical applications in practice. In addition, some other important issues related to MFAC are also discussed. They are the MFAC for complex connected systems, the modularized controller designs between MFAC and other control methods, the robustness of MFAC, and the symmetric similarity for adaptive control system design. The book is written for researchers who are interested in control theory and control engineering, senior undergraduates and graduated students in engineering and applied sciences, as well as professional engineers in process control.

*DNA Electrophoresis Protocols for Forensic Genetics* John Wiley & Sons

Recent developments in air pollution modeling and its application are explored here in contributions by researchers at the forefront of their field. The book is focused on local, urban, regional and intercontinental modeling; data assimilation and air quality forecasting; model assessment and evaluation; aerosol transformation; the relationship between air quality and human health and the interaction between climate change and air quality. The work will provide useful reference material for students and professors interested in air pollution modeling at the graduate level as well as researchers and professionals involved in developing and utilizing air pollution models.

Moving Images DIANE Publishing

The Intergovernmental Panel on Climate Change (IPCC) is the leading international body for assessing the science related to climate change. It provides policymakers with regular assessments of the scientific basis of human-induced climate change, its impacts and future risks, and options for adaptation and mitigation. This IPCC Special Report on the Ocean and Cryosphere in a Changing Climate is the most comprehensive and up-to-date assessment of the observed and projected changes to the ocean and cryosphere and their associated impacts and risks, with a focus on

resilience, risk management response options, and adaptation measures, considering both their potential and limitations. It brings together knowledge on physical and biogeochemical changes, the interplay with ecosystem changes, and the implications for human communities. It serves policymakers, decision makers, stakeholders, and all interested parties with unbiased, up-to-date, policy-relevant information. This title is also available as Open Access on Cambridge Core.

Glossary of Abbreviations Princeton University Press

Cybersecurity and Privacy issues are becoming an important barrier for a trusted and dependable global digital society development. Cyber-criminals are continuously shifting their cyber-attacks specially against cyber-physical systems and IoT, since they present additional vulnerabilities due to their constrained capabilities, their unattended nature and the usage of potential untrustworthiness components. Likewise, identity-theft, fraud, personal data leakages, and other related cyber-crimes are continuously evolving, causing important damages and privacy problems for European citizens in both virtual and physical scenarios. In this context, new holistic approaches, methodologies, techniques and tools are needed to cope with those issues, and mitigate cyberattacks, by employing novel cyber-situational awareness frameworks, risk analysis and modeling, threat intelligent systems, cyber-threat information sharing methods, advanced big-data analysis techniques as well as exploiting the benefits from latest technologies such as SDN/NFV and Cloud systems. In addition, novel privacy-preserving techniques, and crypto-privacy mechanisms, identity and eID management systems, trust services, and recommendations are needed to protect citizens' privacy while keeping usability levels. The European Commission is addressing the challenge through different means, including the Horizon 2020 Research and Innovation program, thereby financing innovative projects that can cope with the increasing cyberthreat landscape. This book introduces several cybersecurity and privacy research challenges and how they are being addressed in the scope of 15 European research projects. Each chapter is dedicated to a different funded European Research project, which aims to cope with digital security and privacy aspects, risks, threats and cybersecurity issues from a different perspective. Each chapter includes the project's overviews and objectives, the particular challenges they are covering, research achievements on security and privacy, as well as the techniques, outcomes, and evaluations accomplished in the scope of the EU project. The book is the result of a collaborative effort among relative ongoing European Research projects in the field of privacy and security as well as related cybersecurity fields, and it is intended to explain how these projects meet the main cybersecurity and privacy challenges faced in Europe. Namely, the EU projects analyzed in the book are: ANASTACIA, SAINT, YAKSHA, FORTIKA, CYBECO, SISSDEN, CIPSEC, CS-AWARE, RED-Alert, Truessec.eu, ARIES, LIGHTest, CREDENTIAL, FutureTrust, LEPS. *Challenges in Cybersecurity and Privacy - the European Research Landscape* is ideal for personnel in computer/communication industries as well as academic staff and master/research students in computer science and communications networks interested in learning about cyber-security and privacy aspects.

*Visual Differential Geometry and Forms* Springer Nature

An inviting, intuitive, and visual exploration of differential geometry and forms. *Visual Differential Geometry and Forms* fulfills two principal goals. In the first four acts, Tristan Needham puts the geometry back into differential geometry. Using 235 hand-drawn diagrams, Needham deploys

Newton's geometrical methods to provide geometrical explanations of the classical results. In the fifth act, he offers the first undergraduate introduction to differential forms that treats advanced topics in an intuitive and geometrical manner. Unique features of the first four acts include: four distinct geometrical proofs of the fundamentally important Global Gauss-Bonnet theorem, providing a stunning link between local geometry and global topology; a simple, geometrical proof of Gauss's famous Theorema Egregium; a complete geometrical treatment of the Riemann curvature tensor of an  $n$ -manifold; and a detailed geometrical treatment of Einstein's field equation, describing gravity as curved spacetime (General Relativity), together with its implications for gravitational waves, black holes, and cosmology. The final act elucidates such topics as the unification of all the integral theorems of vector calculus; the elegant reformulation of Maxwell's equations of electromagnetism in terms of 2-forms; de Rham cohomology; differential geometry via Cartan's method of moving frames; and the calculation of the Riemann tensor using curvature 2-forms. Six of the seven chapters of Act V can be read completely independently from the rest of the book. Requiring only basic calculus and geometry, *Visual Differential Geometry and Forms* provocatively rethinks the way this important area of mathematics should be considered and taught.

*Diagenesis in Sediments* Legare Street Press

This book offers an up-to-date overview of the latest scientific findings in regional climate research on the Baltic Sea basin. This includes climate changes in the recent past, climate projections up until 2100 using the most sophisticated regional climate models available, and an assessment of climate change impacts on terrestrial, freshwater and marine ecosystems. The authors demonstrate that the regional climate has already started to change, and will continue to do so.

*Gaseous and Heterogeneous Detonations* Springer Nature

Warm Dense Matter (WDM) occupies a loosely defined region of phase space intermediate between solid, liquid, gas, and plasma, and typically shares characteristics of two or more of these phases. WDM is generally associated with the combination of strongly coupled ions and moderately degenerate electrons, and careful attention to quantum physics and electronic structure is essential. The lack of a small perturbation parameter greatly limits approximate attempts at its accurate description. Since WDM resides at the intersection of solid state and high energy density physics, many high energy density physics (HEDP) experiments pass through this difficult region of phase space. Thus, understanding and modeling WDM is key to the success of experiments on diverse facilities. These include the National Ignition Campaign centered on the National Ignition Facility (NIF), pulsed-power driven experiments on the Z machine, ion-beam-driven WDM experiments on the NDCX-II, and fundamental WDM research at the Linear Coherent Light Source (LCLS). Warm Dense Matter is also ubiquitous in planetary science and astrophysics, particularly with respect to unresolved questions concerning the structure and age of the gas giants, the nature of exosolar planets, and the cosmochronology of white dwarf stars. In this book we explore established and promising approaches to the modeling of WDM, foundational issues concerning the correct theoretical description of WDM, and the challenging practical issues of numerically modeling strongly coupled systems with many degrees of freedom.

*Scientific and Technical Aerospace Reports* Springer Science & Business Media

Mountainous regions, which cover nearly half of the continent's area, are in many ways of vital

importance for the European population. They supply much of the continent's water, are centres of biological and cultural biodiversity, provide various opportunities for recreation/ farmers. But mountainous regions are characterised by permanent natural handicaps due to topographic and climatic restrictions on economic and agricultural activity. Because of the geographical constraints to farming, work productivity is on average lower by 28% in mountain areas compared with less favoured areas, and by 40% compared with lowlands. Agriculture in mountainous regions can therefore, in general, not compete with agriculture in advantaged lowlands and, with very few exceptions, cannot hope to become competitive in adopting intensive models in response to the growing global competition.

*Toscanelli and Columbus* MIT Press

Mathematics forms bridges between knowledge, tradition, and contemporary life. The continuous development and growth of its many branches, both classical and modern, permeates and fertilizes all aspects of applied science and technology, and so has a vital impact on our modern society. The book will focus on these aspects and will benefit from the contribution of several world-famous scientists from mathematics and related sciences, such as: Ralph Abraham, Andrew Crumey, Peter Markowich, Claudio Procesi, Clive Ruggles, Ismail Serageldin, Amin Shokrollahi, Tobias Wallisser.

*Microbial Metatranscriptomics Belowground* Pearson Higher Ed

Forensic DNA profiling procedures are mainly based on high resolution and high throughput capillary electrophoresis separation and detection systems of PCR amplicons obtained from DNA genomic markers with different inheritance patterns. In *DNA Electrophoresis Protocols for Forensic Genetics*, expert researchers in the field detail many of the protocols and methods which are now commonly used to perform forensic DNA profiling. It includes protocols for profiling of autosomal STRs, Y-STRs, X-STRs, autosomal SNPs, INDELS, Y-SNPs, mtDNA-SNPs, and mtDNA hypervariable regions HV1 and HV2. Protocols for molecular identification of non-human species and mRNA profiling for body fluid identification are also included. 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, and key tips on troubleshooting and avoiding known pitfalls.

**Industry and technology; keys to oceanic development** Springer

This book is an intellectual discourse and a concise compendium of current research in architecture and urbanism. Primarily, it is a book of readings of 16 chapters. The book brings together theories, manifestos and methodologies on contemporary architecture and urbanism to raise the understanding for the future architecture and urban planning. Overall, the book aimed to establish a bridge between theory and practice in built environment. Thus, it reports on the latest research findings and innovative approaches, methodologies for creating, assessing and understanding of contemporary built environment.

**New Approaches in Contemporary Architecture and Urbanism** Createspace Independent Publishing Platform

This text represents state-of-the-art trends and developments in the emerging field of engineering asset management as presented at the Sixth World Congress on Engineering Asset Management (WCEAM) held in Cincinnati, OH, USA from October 3-5, 2011 The Proceedings of the WCEAM 2011 is

an excellent reference for practitioners, researchers and students in the multidisciplinary field of asset management, covering topics such as: Asset condition monitoring and intelligent maintenance; Asset data warehousing, data mining and fusion; Asset performance and level-of-service models; Design and lifecycle integrity of physical assets; Deterioration and preservation models for assets; Education and training in asset management; Engineering standards in asset management; Fault diagnosis and prognostics; Financial analysis methods for physical assets; Human dimensions in integrated asset management; Information quality management; Information systems and knowledge management; Intelligent maintenance; Intelligent sensors and devices; Maintenance strategies in asset management; Optimization decisions in asset management; Prognostics & Health Management; Risk management in asset management; Strategic asset management; and Sustainability in asset management.

Model Free Adaptive Control Routledge

Unavailable as a collection until now, these essays document both the intellectual journey of one of the world's leading architects and a critical period in the evolution of architectural thought. Born in Tokyo, educated in Japan and the United States, and principal of an internationally acclaimed architectural practice, celebrated architect Fumihiko Maki brings to his writings on architecture a perspective that is both global and uniquely Japanese. Influenced by post-Bauhaus internationalism, sympathetic to the radical urban architectural vision of Team X, and a participant in the avant-garde movement Metabolism, Maki has been at the forefront of his profession for decades. This collection of essays documents the evolution of architectural modernism and Maki's own fifty-year intellectual journey during a critical period of architectural and urban history. Maki's treatment of his two overarching themes—the contemporary city and modernist architecture—demonstrates strong (and sometimes unexpected) linkages between urban theory and architectural practice. Images and commentary on three of Maki's own works demonstrate the connection between his writing and his

designs. Moving through the successive waves of modernism, postmodernism, neomodernism, and other isms, these essays reflect how several generations of architectural thought and expression have been resolved within one career.

Frontiers and Challenges in Warm Dense Matter Humana Press

Essential reading for students and practitioners of urban design, this collection of essays introduces the 6 dimensions of urban design through a range of the most important classic and contemporary key texts. Urban design as a form of place making has become an increasingly significant area of academic endeavour, of public policy and professional practice. Compiled by the authors of the best selling *Public Places Urban Spaces*, this indispensable guide includes all the crucial definitions and various understandings of the subject, as well as a practical look at how to implement urban design that readers will need to refer to time and time again. Uniquely, the selections of essays that include the works of Gehl, Jacobs, and Cullen, are presented substantially in their original form, and the truly accessible dip-in-and-out format will enable readers to form a deeper, practical understanding of urban design.

Nurturing Dreams Springer Science & Business Media

This book constitutes the proceedings of the 1st International Conference on Advances in Emerging Trends and Technologies (ICAETT 2019), held in Quito, Ecuador, on 29–31 May 2019, jointly organized by Universidad Tecnológica Israel, Universidad Técnica del Norte, and Instituto Tecnológico Superior Rumiñahui, and supported by SNOTRA. ICAETT 2019 brought together top researchers and practitioners working in different domains of computer science to share their expertise and to discuss future developments and potential collaborations. Presenting high-quality, peer-reviewed papers, the book discusses the following topics: Technology Trends Electronics Intelligent Systems Machine Vision Communication Security e-Learning e-Business e-Government and e-Participation

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