

Crossing The Data Delta Turn The Data You Have Into The Information You Need

Efficient Test Methodologies for High-Speed Serial Links describes in detail several new and promising techniques for cost-effectively testing high-speed interfaces with a high test coverage. One primary focus of Efficient Test Methodologies for High-Speed Serial Links is on efficient testing methods for jitter and bit-error-rate (BER), which are widely used for quantifying the quality of a communication system. Various analysis as well as experimental results are presented to demonstrate the validity of the presented techniques.

Contains papers presented for the -30th annual meeting of the association.

Earth's Magnetosphere: Formed by the Low Latitude Boundary Layer, Second Edition, provides a fully updated overview of both historical and current data related to the magnetosphere and how it is formed. With a focus on experimental data and space missions, the book goes in depth relating space physics to the Earth's magnetosphere and its interaction with the solar wind. Starting with Newton's law, this book also examines Maxwell's equations and subsidiary equations such as continuity, constitutive relations and the Lorentz transformation, Helmholtz' theorem, and Poynting's theorem, among other methods for understanding this interaction. This new edition of Earth's Magnetosphere is updated with information on such topics as 3D reconnection, space weather implications, recent missions such as MMS, ionosphere outflow and coupling, and the inner magnetosphere. With the addition of end-of-chapter problems as well, this book is an excellent foundational reference for geophysicists, space physicists, plasma physicists, and graduate students alike. Offers an historical perspective of early magnetospheric research, combined with progress up to the present Describes observations from various spacecraft in a variety of regions, with explanations and discussions of each Includes chapters on prompt particle acceleration to high energies, plasma transfer event, and the low latitude boundary layer

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This volume summarizes in 16 chapters the petroleum geology of the Békés basin with respect to its geological setting in the Pannonian Basin. The work was accomplished by a joint effort of the Hungarian Oil and Gas Co. and U.S. Geological Survey. In contrast with other books that discuss the geology of Hungary, this volume identifies, in detail, potential source rocks and reservoir rocks, and evaluates the maturation, generation, migration, and entrapment of hydrocarbons. The outstanding points are: (1) its summary of the petroleum geology of the Békés basin with respect to its structural and sedimentological setting in the Pannonian Basin; (2) the identification of geographic areas, structural trends and stratigraphic zones that remain relatively unexplored; and (3) a summary of 'petroleum plays' with an assessment of their recoverable, undiscovered resources of oil and gas. This book is primarily for petroleum geologists interested in oil and gas exploration in Hungary, and earth scientists interested in the geology of the Pannonian Basin.

Principles of Sequence Stratigraphy provides an in-depth coverage and impartial assessment of all current ideas and models in the field of sequence stratigraphy. This textbook thoroughly develops fundamental concepts of sequence stratigraphy that links base-level changes to sedimentary deposits. It examines differing approaches to how the sequence stratigraphic

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method can be applied to the rock record, and reviews practical applications such as how petroleum geologists can target where to drill for oil. The book's balanced approach helps students acquire a common terminology and conceptual understanding that will be helpful later in their academic and professional careers, whether they pursue jobs as geologists, geophysicists, or reservoir engineers. This textbook offers theoretical guidelines of how the facies and time relationships are expected to be under specific circumstances such as subsidence patterns, sediment supply, topographic gradients, etc. It goes beyond the standard treatment of sequence stratigraphy by focusing on a more user-friendly and flexible method of analysis of the sedimentary rock record than other current methods. The text is richly illustrated with dozens of full color photographs and original illustrations of outcrop, core, well log, and 3D seismic data. There is a dedicated chapter on discussions and conclusions, along with an instructor site containing images from the book. Principles of Sequence Stratigraphy will appeal to researchers and professionals, as well as upper graduate and graduate students in stratigraphy, sedimentology, petroleum geology and engineering, economic geology, coal geology, seismic exploration, precambrian geology, and mining geology and engineering. * Offers theoretical guidelines of how the facies and time relationships are expected to be under specific circumstances such as subsidence patterns, sediment supply, topographic gradients, etc. * Contains numerous high-quality and full-color diagrams, photographs and illustrations, virtually on every aid in comprehension of the subject * Features a dedicated chapter on discussions and conclusions incorporating all previous chapters with references, basic principles and strategies * Provides an extensive list of references for further reading, as well as an author and subject index for quick information access

The 14th RCNP OSAKA International Symposium on Nuclear Reaction Dynamics of Nucleon-Hadron Many Body System was held in Osaka from December 6 to 9, 1995. The symposium covered current topics from Nucleon Spins and Mesons in Nuclei to Quark Lepton Nuclear Physics. Thus it included the field of hadron/nuclear physics from sub-GeV to multi-GeV energy region, as well as recent activities and development at RCNP. It was also intended to be a kind of winter school for young researchers/graduate students. This proceedings consists of the invited talks and lectures presented by leading physicists in the field and short oral presentations.

'If I were a large enterprise about to invest in Big Data, BI, Data Governance or MDM, I'd call time out until my key staff had read this book. It's a thought-provoking game changer that can help structure the necessary conversation about changing the traditional data culture in an organization. I hope you will enjoy reading this as much as I did.' Aaron Zornes, Chief Research Officer & Founder, The MDM Institute & Conference Chairman, The MDM & Data Governance Summit series.(London, Madrid, New York, San Francisco, Sydney, Tokyo, Toronto). Crossing the Data Delta is an important and exciting new book from the Entity Group that provides an innovative analysis of the Digital Revolution. It focuses on the gap between the enormous amount of data that organisations have, and the difficulties you face turning this into measurable business value. It applies whether your data is structured or unstructured, whether your organisation is large or small. It applies to you whatever type of organisation you work for. Crossing the Data Delta presents an agile approach to driving digital value in your organisation. It provides a clarion call to treat data as an asset. The value of a modern organisation depends upon the quality of its data. Turning accurate, complete, timely, secure data into business intelligence is how organisations will win the data wars of the 21st century. Crossing the Data Delta tells you exactly how to do that.

The proceedings set LNCS 11727, 11728, 11729, 11730, and 11731 constitute the proceedings of the 28th International Conference on Artificial Neural Networks, ICANN 2019, held in Munich, Germany, in September 2019. The total of 277 full papers and 43 short papers presented in these proceedings was carefully reviewed and selected from 494 submissions.

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They were organized in 5 volumes focusing on theoretical neural computation; deep learning; image processing; text and time series; and workshop and special sessions.

Data analytics is proving to be an ally for epidemiologists as they join forces with data scientists to address the scale of crises. Analytics examined from many sources can derive insights and be used to study and fight global outbreaks. Pandemic analytics is a modern way to combat a problem as old as humanity itself: the proliferation of disease. Machine Learning and Data Analytics for Predicting, Managing, and Monitoring Disease explores different types of data and discusses how to prepare data for analysis, perform simple statistical analyses, create meaningful data visualizations, predict future trends from data, and more by applying cutting edge technology such as machine learning and data analytics in the wake of the COVID-19 pandemic. Covering a range of topics such as mental health analytics during COVID-19, data analysis and machine learning using Python, and statistical model development and deployment, it is ideal for researchers, academicians, data scientists, technologists, data analysts, diagnosticians, healthcare professionals, computer scientists, and students.

The second edition of a comprehensive state-of-the-art graduate level text on microeconomic methods, substantially revised and updated. The second edition of this acclaimed graduate text provides a unified treatment of two methods used in contemporary econometric research, cross section and data panel methods. By focusing on assumptions that can be given behavioral content, the book maintains an appropriate level of rigor while emphasizing intuitive thinking. The analysis covers both linear and nonlinear models, including models with dynamics and/or individual heterogeneity. In addition to general estimation frameworks (particular methods of moments and maximum likelihood), specific linear and nonlinear methods are covered in detail, including probit and logit models and their multivariate, Tobit models, models for count data, censored and missing data schemes, causal (or treatment) effects, and duration analysis. Econometric Analysis of Cross Section and Panel Data was the first graduate econometrics text to focus on microeconomic data structures, allowing assumptions to be separated into population and sampling assumptions. This second edition has been substantially updated and revised. Improvements include a broader class of models for missing data problems; more detailed treatment of cluster problems, an important topic for empirical researchers; expanded discussion of "generalized instrumental variables" (GIV) estimation; new coverage (based on the author's own recent research) of inverse probability weighting; a more complete framework for estimating treatment effects with panel data, and a firmly established link between econometric approaches to nonlinear panel data and the "generalized estimating equation" literature popular in statistics and other fields. New attention is given to explaining when particular econometric methods can be applied; the goal is not only to tell readers what does work, but why certain "obvious" procedures do not. The numerous included exercises, both theoretical and computer-based, allow the reader to extend methods covered in the text and discover new insights.

The International Conference on Asian Digital Libraries (ICADL) is an annual international forum that provides opportunities for librarians, researchers and experts to exchange their research results, innovative ideas, service experiences and state-of-the-art developments in the field of digital libraries. Building on the success of the first six ICADL conferences, the 7th ICADL conference hosted by the Shanghai Jiao Tong University and the Shanghai Library in Shanghai, China aimed to further strengthen the academic collaboration and strategic alliance in the Asia-Pacific Region in the development of digital libraries. The theme of ICADL 2004 was: Digital library: International Collaboration and Cross-fertilization, with its focus on technology, services, management and localization. The conference began with an opening ceremony and the conference program featured 9 keynote speeches and 5 invited speeches by local and international experts. During the 3-day program, 40 research paper presentations

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were given in 3 parallel sessions. The conference also included 6 tutorials and an exhibition. The conference received 359 submissions, comprising 248 full papers and 111 short papers. Each paper was carefully reviewed by the Program Committee members. Finally, 44 full papers, 15 short papers and 37 poster papers were selected. On behalf of the Organizing and Program Committees of ICADL 2004, we would like to express our appreciation to all authors and attendees for participating in the conference. We also thank the sponsors, Program Committee members, supporting organizations and helpers for making the conference a success. Without their efforts, the conference would not have been possible.

The Pulitzer Prize-winning view of the continent, across the fortieth parallel and down through 4.6 billion years Twenty years ago, when John McPhee began his journeys back and forth across the United States, he planned to describe a cross section of North America at about the fortieth parallel and, in the process, come to an understanding not only of the science but of the style of the geologists he traveled with. The structure of the book never changed, but its breadth caused him to complete it in stages, under the overall title *Annals of the Former World*. Like the terrain it covers, *Annals of the Former World* tells a multilayered tale, and the reader may choose one of many paths through it. As clearly and succinctly written as it is profoundly informed, this is our finest popular survey of geology and a masterpiece of modern nonfiction. *Annals of the Former World* is the winner of the 1999 Pulitzer Prize for Nonfiction.

"A 22-volume, highly illustrated, A-Z general encyclopedia for all ages, featuring sections on how to use World Book, other research aids, pronunciation key, a student guide to better writing, speaking, and research skills, and comprehensive index"--

The reserves, or extractable fraction, of the fuel-mineral endowment are sufficient to supply the bulk of the world's energy requirements for the immediately foreseeable future-well into the next century according to even the most pessimistic predictions. But increasingly sophisticated exploration concepts and technology must be employed to maintain and, if possible, add to the reserve base. Most of the world's fuel-mineral resources are in sedimentary rocks. Any procedure or concept that helps describe, understand, and predict the external geometry and internal attributes of major sedimentary units can therefore contribute to discovery and recovery of coal, uranium, and petroleum. While conceding the desirability of renewable and nonpolluting energy supply from gravitational, wind, or solar sources, the widespread deployment of these systems lies far in the future-thus the continued commercial emphasis on conventional nonrenewable fuel mineral resources, even though their relative significance will fluctuate with time. For example, a decade ago the prognostications for uranium were uniformly optimistic. But in the early 1980s the uranium picture is quite sombre, although unlikely to remain permanently depressed. Whether uranium soars to the heights of early expectations remains to be seen. Problems of waste disposal and public acceptance persist. Fusion reactors may ultimately eliminate the need for uranium in power generation, but for the next few decades there will be continued demand for uranium to fuel existing power plants and those that come on stream. This book is, to some extent, a hybrid.

Conceived and written by a geologist for geologists, *Fundamentals of Well-Log Interpretation* is a considerably revised and updated translation of the French edition. Part 1 dealt with the acquisition of logging data and when it appeared, one reviewer wrote: Serra has written a major reference work which is unusually well-organized, well-illustrated, and information-rich...If volume 2 is as thorough and exacting in detail as volume 1, it will do much toward furthering geologists' knowledge of well logging." (AAPG Bulletin). The fundamental objective of this second volume is to show that wireline log data constitute a remarkable source of geological information of the utmost importance for geologists, but also for reservoir engineers, geophysicists and petrophysicists. Too often, by nature of their training, geologists do not realize that

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wireline log data, which are physical data, hold in fact a tremendous variety of geological information covering practically all branches of geology. They are reluctant to use these data because often they are not familiar with them and do not know how to interpret wireline logs.

The Oosterschelde estuary is one of the estuaries in the Netherlands which remained after the Delta scheme was completed in 1986. In the seventies the Oosterschelde became a national symbol of the change in political thinking and decision making about the values of our natural environment. As a result of political decision a storm surge barrier was built in the mouth of the estuary, as a compromise between safety for the human population and nature conservation. Owing to the broad interest in the meaning of the Oosterschelde estuary for Dutch and international societies, it became one of the most intensively studied coastal ecosystems in Western Europe. In an interdisciplinary approach of several state agencies and universities, a broad spectrum of physical, chemical and biological research has been carried out during the period of 1980--1989, dedicated to the structure and functioning of the saline ecosystem. The undisturbed estuary was studied during the period between 1980--1984. Large mathematical models had been constructed before 1986, to simulate future changes in the ecosystem. Further studies after the completion of the storm surge barrier (1986--1989) have been used for verification of the model. The integrated and summarized knowledge of the Oosterschelde ecosystem is used by water managers and nature and fisheries conservationists. A case study for professional civil engineers, ecologists, marine biologists, water managers, decision makers, university students and anyone interested in physical, chemical and biological estuarine and coastal sciences.

Measure, rate, and improve network performance with techniques from an expert. With years of practical experience, Nassar is an authority on network performance baselining. In this revolutionary book, he includes approaches for standard baseline methodologies along with actual steps and processes to perform network baseline measurements.

Using language to date the origin and spread of food production, *Archaeology and Language II* represents groundbreaking work in synthesizing two disciplines that are now seen as interlinked: linguistics and archaeology. This volume is the second part of a three-part survey of innovative results emerging from their combination. Archaeology and historical linguistics have largely pursued separate tracks until recently, although their goals can be very similar. While there is a new awareness that these disciplines can be used to complement one another, both rigorous methodological awareness and detailed case-studies are still lacking in the literature. This three-part survey is the first study to address this. *Archaeology and Language II* examines in some detail how archaeological data can be interpreted through linguistic hypotheses. This collection demonstrates the possibility that, where archaeological sequences are reasonably well-known, they might be tied into evidence of language diversification and thus produce absolute chronologies. Where there is evidence for migrations and expansions these can be explored through both disciplines to produce a richer interpretation of prehistory. An important part of this is the origin and spread of food production which can be modelled through the spread of both plants and words for them. *Archaeology and Language II* will be of interest to researchers in linguistics, archaeologists and anthropologists.

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Delta Tango Trilogy Book One: Fleeing the Past explores life in the U.S. Border Patrol through the experiences of Layne Sheppard, a man striving to prove that his failures are in the past. Fleeing the Past is part of the Delta Tango Trilogy by Christopher LaGrone that follows Layne from the day he applies to join the U.S. Border Patrol through the rigors of the Federal Law Enforcement Training Center (known as the Border Patrol Academy). In Fleeing the Past, as Layne seeks self-respect and self-confidence, he endures the boot camp-like ordeal of the Border Patrol Academy in sweltering New Mexico—punishing long-distance runs and debilitating hand-to-hand combat. During precious free time he meets Felina Camarena Rivera. Both keep personal secrets and pursue plans for escaping them—plans they also keep to themselves, even as their attraction for each other deepens.

Coasts and Estuaries: The Future provides valuable information on how we can protect and maintain natural ecological structures while also allowing estuaries to deliver services that produce societal goods and benefits. These issues are addressed through chapters detailing case studies from estuaries and coastal waters worldwide, presenting a full range of natural variability and human pressures. Following this, a series of chapters written by scientific leaders worldwide synthesizes the problems and offers solutions for specific issues graded within the framework of the socio-economic-environmental mosaic. These include fisheries, climate change, coastal megacities, evolving human-nature interactions, remediation measures, and integrated coastal management. The problems faced by half of the world living near coasts are truly a worldwide challenge as well as an opportunity for scientists to study commonalities and differences and provide solutions. This book is centered around the proposed DAPSI(W)R(M) framework, where drivers of basic human needs requires activities that each produce pressures. The pressures are mechanisms of state change on the natural system and Impacts on societal welfare (including well-being). These problems then require responses, which are the solutions relating to governance, socio-economic and cultural measures (Scharin et al 2016). Covers estuaries and coastal seas worldwide, integrating their commonality, differences and solutions for sustainability Includes global case studies from leading worldwide contributors, with accompanying boxes highlighting a synopsis about a particular estuary and coastal sea, making all information easy to find Presents full color images to aid the reader in a better understanding of details of each case study Provides a multi-disciplinary approach, linking biology, physics, climate and social sciences

In view of changes in the global environment, it is important to determine and developing technologies to ameliorate metabolic limitations by biological processes most sensitive to abiotic stress factors warning crop productivity. It is reaffirmed that publishing the important Treatise Series has been undertaken with a view to identify the inadequacies under varied environments and to scientifically extend precise and meaningful research so that the significant outcomes including new technologies are judiciously applied for requisite productivity, profitability and sustainability of agriculture. Besides this, meticulous research in some of the very sensible and stirring areas of Plant Physiology-Plant Molecular Physiology are indispensably needed for holistic development of agriculture and crop production in different agro-climatic zones. Ardently, this is also to focus upon excellent new ideas ensuring the best science done across the full extent of modern plant biology, in general, and plant physiology, in particular. In Volume 14, with inventive applied research, attempts have been made to bring together much needed eighteen remarkable review articles distributed in three appropriate major sections of Nutriophysiology and Crop Productivity, Plant Responses to Changing Environment and Environmental Stresses and Technological Innovations in Agriculture written by thirty four praiseworthy contributors of eminence in unequivocal fields mainly from premier institutions of India and abroad. In reality, the Volume 14 of the Treatise

