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This book offers an up-to-date overview of the recently proposed theory of quantum isometry groups. Written by the founders, it is the first book to present the research on the “quantum isometry group”, highlighting the interaction of noncommutative geometry and quantum groups, which is a noncommutative generalization of the notion of group of isometry of a classical Riemannian manifold. The motivation for this generalization is the importance of isometry groups in both mathematics and physics. The framework consists of Alain Connes’ “noncommutative geometry” and the operator-algebraic theory of “quantum groups”. The authors prove the existence of quantum isometry group for noncommutative manifolds given by spectral triples under mild conditions and discuss a number of methods for computing them. One of the most striking and profound findings is the non-existence of non-classical quantum isometry groups for arbitrary classical connected compact manifolds and, by using this, the authors explicitly describe quantum isometry groups of most of the noncommutative manifolds studied in the literature. Some physical motivations and possible applications are also discussed.

Introduction to AutoCAD Plant 3D 2019 is a learn-by-doing manual focused on the basics of AutoCAD Plant 3D. The book helps you to learn the process of creating projects in AutoCAD Plant 3D rather than learning individual tools and commands. It consists of sixteen tutorials, which help you to complete a project successfully. The topics explained in the plant design process are: - Creating Projects - Creating and Editing P&IDs - Managing Data - Generating Reports - Creating 3D Structures - Adding Equipment - Creating Piping - Validate Drawings - Creating Isometric Drawings - Creating Orthographic Drawing - Project Management, and - Printing and Publishing Drawings

Designed for teaching astrophysics to physics students at advanced undergraduate or beginning graduate level, this textbook also provides an overview of astrophysics for astrophysics graduate students, before they delve into more specialized volumes. Assuming background knowledge at the level of a physics major, the textbook develops astrophysics from the basics without requiring any previous study in astronomy or astrophysics. Physical concepts, mathematical derivations and observational data are combined in a balanced way to provide a unified treatment. Topics such as general relativity and plasma physics, which are not usually covered in physics courses but used extensively in astrophysics, are developed from first principles. While the emphasis is on developing the fundamentals thoroughly, recent important discoveries are highlighted at every stage.

Master entrepreneur, original hip-hop mogul, and New York Times bestselling author Russell Simmons shares the most fundamental key to success—meditation—and guides readers to use stillness as a powerful tool to access their potential. In the New York Times bestseller *Super Rich*, Russell Simmons proved that to be rich is more than just having money in the bank—wealth is about balance, joy, and conscientious living. In *Success Through Stillness*, Simmons shows the connection between inner peace and outward success through interviews with other successful leaders in various industries, and how learning to be still has been instrumental in his own career. Simmons attributes his meditation practice with changing his life for the better and says that there is no “bad” way to meditate, only different forms for different people. In this highly anticipated new book, Russell Simmons guides readers into finding greater clarity and focus, and explains how to be healthier in both mind and body. Simmons breaks down what he's learned from masters of meditation into a guide that is accessible to those unfamiliar with the practice.

ARCHITECTURAL STRUCTURE & DESIGN. When is a house ecological? Does the use of natural materials and solar cells on the roof make a building an example of “green” architecture? Perhaps even Antoni Gaudi and Frank Lloyd Wright designed “greener” buildings than most contemporary architects, whose low-energy houses scarcely differ outwardly from traditional ones. James Wines puts up the various - and often irreconcilable - concepts of environmentally-friendly architecture for discussion, making a case for an architecture that not only focuses on technological solutions, but also tries to reconcile man and nature in its formal idiom. Among the examples of contemporary ecological architecture presented are works by Emilio Ambasz, Gustav Peichl, Arthur Quarmby, Jean Nouvel, Sim Van der Ryn, Jourda and Perraudin, Log ID, James Cutler, Stanley Saitowitz, Francois Roche, Nigel Coates and Michael Sorkin.

Contents: The Son of the Wolf The God of his Fathers & Other Stories A Daughter of the Snows The Call of the Wild The Sea Wolf The Faith of Men & Other Stories The Game Tales of the Fish Patrol Moon-Face & Other Stories White Fang Before Adam Love of Life & Other Stories The Road The Iron Heel Martin Eden Burning Daylight Lost Face Adventure The Abysmal Brute South Sea Tales When God Laughs & Other Stories The Scarlet Plague The House of Pride A Son of the Sun The Valley of the Moon The Night-Born The Mutiny of the Elsinore The Strength of the Strong The Star Rover The Little Lady of the Big House The Turtles of Tasman Jerry of the Islands Michael, Brother of Jerry Hearts of Three The Red One On the Makaloa Mat Children of the Frost Dutch Courage and Other Stories

Öz Yilmaz has expanded his original volume on processing to include inversion and interpretation of seismic data. In addition to the developments in all aspects of conventional processing, this two-volume set represents a comprehensive and complete coverage of the modern trends in the seismic industry—from time to depth, from 3-D to 4-D, from 4-D to 4-C, and from isotropy to anisotropy.

This book summarizes the results of our modeling-from-reality (MFR) project which took place over the last decade or so. The goal of this project is to develop techniques for modeling real objects and/or environments into geometric and photometric models through computer vision techniques. By developing such techniques, time consuming modeling process, currently undertaken by human programmers, can be (semi-)automatically performed, and, as a result, we can drastically shorten the developing time of such virtual reality systems, reduce their developing cost, and widen their application areas. Originally, we began to develop geometric modeling techniques that acquire shape information of objects/environments for object recognition. Soon, this effort evolved into an independent modeling project, virtual-reality modeling, with the inclusion of photometric modeling aspects that acquire appearance information, such as color, texture, and smoothness. Over the course of this development, it became apparent that environmental modeling techniques were necessary when applying our techniques to mixed realities that seamlessly combine generated virtual models with other real/virtual images. The material in his book covers these aspects of development.

Automatic Control and Intelligent Systems System Identification and Modeling Signal Processing Instrumentation and Automation Technological Advancements Power Systems Engineering Communication Engineering Electronics Engineering Computer Engineering

This is an A-Z reference guide to over 5000 medical terms including symptoms, diseases, drugs and treatments. Since the appearance of the first edition in 1990, significant developments have occurred in many areas of medicine. For example, far more internal operations can now be performed by minimally invasive keyhole surgery. Genetic disorders, such as cystic fibrosis, are now understood in far greater depth than before. There has also been a dramatic increase in the number of screening tests for the early detection of diseases.

Applied Subsurface Geological Mapping, With Structural Methods, 2nd Edition is the practical, up-to-the-minute guide to the use of subsurface interpretation, mapping, and structural techniques in the search for oil and gas resources. Two of the industry's leading consultants present systematic coverage of the field's key principles and newest advances, offering guidance that is valuable for both exploration and development activities, as well as for "detailed" projects in maturely developed areas. Fully updated and expanded, this edition combines extensive information from the published literature with significant material never before published. The authors introduce superior techniques for every major petroleum-related tectonic setting in the world. Coverage includes: A systematic, ten-step philosophy for subsurface interpretation and mapping The latest computer-based contouring concepts and applications Advanced manual and computer-based log correlation Integration of geophysical data into subsurface interpretations and mapping Cross-section construction: structural, stratigraphic, and problem-solving Interpretation and generation of valid fault, structure, and isochore maps New coverage of 3D seismic interpretation, from project setup through documentation Compressional and extensional structures: balancing and interpretation In-depth new coverage of strike-slip faulting and related structures Growth and correlation consistency techniques: expansion indices, Multiple Bischke Plot Analysis, vertical separation versus depth, and more Numerous field examples from around the world Whatever your role in the adventure of finding and developing oil or gas resources—as a geologist, geophysicist, engineer, technologist, manager or investor—the tools presented in this book can make you significantly more effective in your daily technical or decision-oriented activities.

In this wide-ranging and comprehensive review of the historical development and current status of ocean circulation models, the analysis extends from simple analytical approaches to the latest high-resolution numerical models with data assimilation. The authors, both of whom are pioneer scientists in ocean and shelf sea modelling, look back at the evolution of Western and Eastern modelling methodologies during the second half of the last century. They also present the very latest information on ocean climate modelling and offer examples for a number of oceans and shelf seas. The book includes a critical analysis of literature on ocean climate variability modelling, as well as assessing the strengths and weaknesses of the best-known modelling techniques. It also anticipates future developments in the field, focusing on models based on a synthesis of numerical simulation and field observation, and on nonlinear thermodynamic model data synthesis.

Delve inside Windows architecture and internals - and see how core components work behind the scenes. This classic guide has been fully updated for Windows 8.1 and Windows Server 2012 R2, and now presents its coverage in three volumes: Book 1, User Mode; Book 2, Kernel Mode; Book 3, Device Driver Models. In Book 1, you'll plumb Windows fundamentals, independent of platform - server, desktop, tablet, phone, Xbox. Coverage focuses on high-level functional descriptions of the various Windows components and features that interact with, or are manipulated by, user mode programs, or applications. You'll also examine management mechanisms and operating system components that are implemented in user mode, such as service processes. As always, you get critical insider perspectives on how Windows operates. And through hands-on experiments, you'll experience its internal behavior firsthand - knowledge you can apply to improve application design, debugging, system performance, and support. Planned chapters: Concepts & Tools; System Architecture; Windows Application Support; Windows Store Apps; Graphics & the Desktop; Management Mechanisms; User Mode Memory Management; Security; Storage; Networking; Hyper-V.

Master the intricacies of application development with unmanaged C++ code—straight from the experts. Jeffrey Richter's classic book is now fully revised for Windows XP, Windows Vista, and Windows Server 2008. You get in-depth, comprehensive guidance, advanced techniques, and extensive code samples to help you program Windows-based applications. Discover how to: Architect and implement your applications for both 32-bit and 64-bit Windows Create and manipulate processes and jobs Schedule, manage, synchronize and destroy threads Perform asynchronous and synchronous device I/O operations with the I/O completion port Allocate memory using various techniques including virtual memory, memory-mapped files, and heaps Manipulate the default committed physical storage of thread stacks Build DLLs for delay-loading, API hooking, and process injection Using structured exception handling, Windows Error Recovery, and Application Restart services

An Invaluable Reference for Members of the Drilling Industry, from Owner-Operators to Large Contractors, and Anyone Interested In Drilling Developed by one of the world's leading authorities on drilling technology, the fifth edition of The Drilling Manual draws on industry expertise to provide the latest drilling methods, safety, risk management, and management practices, and protocols. Utilizing state-of-the-art technology and techniques, this edition thoroughly updates the fourth edition and introduces entirely new topics. It includes new coverage on occupational health and safety, adds new sections on coal seam gas, sonic and coil tube drilling, sonic drilling, Dutch cone probing, in hole water or mud hammer drilling, pile top drilling, types of grouting, and improved sections on drilling equipment and maintenance. New sections on drilling applications include underground blast hole drilling, coal seam gas drilling (including well control), trenchless technology and geothermal drilling. It contains heavily illustrated chapters that clearly convey the material. This manual incorporates forward-thinking technology and details good industry practice for the following sectors of the drilling industry: Blast Hole Environmental Foundation/Construction Geotechnical Geothermal Mineral Exploration Mineral Production and Development Oil and Gas: On-shore Seismic Trenchless Technology Water Well The Drilling Manual, Fifth Edition provides you with the most thorough information about the "what," "how," and "why" of drilling. An ideal resource for drilling personnel, hydrologists, environmental engineers, and scientists interested in subsurface conditions, it covers drilling machinery, methods, applications, management, safety, geology, and other related issues.

This open access handbook presents a trustable craniofacial superimposition methodological framework. It includes detailed technical and practical overviews, and discussions about the latest tools and open problems, covering the educational, technical, ethical, and security aspects of this forensic identification technique. The book will be of particular interest to researchers and practitioners in forensic anthropology and forensic ID, and also researchers in computational intelligence. It is the final result of a European project, New Methodologies and Protocols of Forensic Identification by Craniofacial Superimposition (MEPROCS). The project collaborators who contributed to this handbook are: S. Damas, O. Ibáñez, M.I. Huete, T. Kahana, C. Wilkinson, E. Ferguson, C. Erolin, C. Cattaneo, P.T. Jayaprakash, R. Jankauskas, F. Cavalli, K. Imaizumi, R. Vicente, D. Navega, E. Cunha, A.H. Ross, E. Veselovskaya, A. Abramov, P. Lestón, F. Molinero, E. Ruiz, F. Navarro, J. Cardoso, F. Viegas, D. Humpire, R. Hardiman, J. Clement, A. Valsecchi, B.R. Campomanes-Alvarez, C. Campomanes-Alvarez, A.S. Çardır, T. Briers, M. Steyn, M. Viniero, D.N. Vieira, and O. Cordón.

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The Color Teil chronicles Teil Duncan's artistic journey, displaying over three hundred full-color images of her work. Her studies range from figure drawings and animals to beach and pool scenes. Inspiration comes in all sizes and shapes for Teil. She attributes her artistic talent and motivation largely to her Christian faith, which, while she lost touch with it during her young adult years, she now thrives within. Her walk with Jesus is Teil's top priority. Throughout this book, readers will become better acquainted with both the artist, as a person, and the art she creates. It is a vibrant, colorful journey that can only be described as: The Color Teil.

Yolanda Johnson is an author that has been chosen by God before she was born. She is a faithful mother of five children and also the loving wife to Deacon Donnie Johnson. She also pursued a degree in business. God has impressed a vision on her heart to open up a nonprofit organization called, "Re-changing Lives". This establishment will cater to trouble teens that have made mistakes and look for ways to achieve a career. Most of all, they will be encouraged to love the Lord with all their hearts and He will direct their paths (Mark 12:30 & Proverbs 3:6). Yolanda always has a mind to win souls for Christ and to reach out to the needy. She plans to be a motivational speaker and to touch the lives of many.

"A great no-BS resource where you are guaranteed to pick up useful tips and approaches, whether you're an email pro or just starting out."
– Andrus Purde, Founder & CEO, Outfunnel - - No matter how great your product is, it's very likely that 40–60% of free trials never see your product a second time. This means that you stand to lose up to 60% of your hard-earned signups. Do you just let them go? Email marketing is one of the highest leverage activities in a SaaS business. It can help: • increase onboarding and trial conversions; • reduce churn; and • grow monthly recurring revenue (MRR). By introducing a single campaign today, you could significantly increase your conversions, and get the benefits of that increase predictably and repeatedly, week after week. That's the beauty of automation. It's also how we created an upsell program at LANDR that was generating up to 42% of weekly subscription conversions. When I joined LANDR, we were only sending 3 automated emails (and only 1 of those was performing). By focusing on sending the right email to the right user at the right time, performance jumped up, with increases in: • product onboarding completion; • engagement; • sales; and • upgrades to annual subscriptions. We made a lot of mistakes along the way (including sending 85,000 emails to the wrong users). It took a lot of trial and error, long hours, and exhaustive internet searches, but the results were obvious. Email was more effective at generating revenue than: • Investing in more ads; • Building new features hoping they'll drive engagement; • Redesigning at the cost of trial and error. You can learn SaaS email marketing the way we did (through hard work), or jump to the front of the line. The SaaS Email Marketing Playbook includes everything I would have loved to know about email before I got started at LANDR: • how and when to create new emails or In-App messages to influence your users' behaviors and purchase decisions; • how to double, triple, or quadruple the performance of every single email you send; • how to stand out in an increasingly more crowded inbox; and • how to create processes and structure to systematically grow the performance of an email marketing program. The book also includes seven deep dives to help you implement your onboarding, upsell, retention, referral, and behavioral sequences, among others. You don't need to be a master copywriter (or have one on your team) to send effective emails. You just need the right processes and knowledge to start growing your business with email. The SaaS Email Marketing Playbook contains everything you need to plan, build, and optimize your email marketing program. - - The SaaS Email Marketing Playbook was written for businesses with clear signs of Product-Market Fit, that are: • selling to consumers or businesses; • charging monthly or yearly subscription fees; • generating more than \$2k MRR; and • adding at least 200 email signups per week.

Math 1 B

'A stunning spy story ... incomparable' Guardian It is the most dangerous secret of the Second World War, one that could destroy Britain's reputation forever. In 1940, a clandestine meeting took place between Churchill and Adolf Hitler. All records of it have been hidden, and anyone who discovers the truth dies - their file stamped XPD; Expedient Demise. But now what was buried is threatening to come to light, and SIS agent Boyd Stuart must stop it falling into the wrong hands, no matter how high the price. 'Deliciously sharp and flawlessly accurate dialogue, breathtakingly clever plotting ... a splendidly strongly told story' The Times

Digital Image Forensics There is More to a Picture than Meets the Eye Springer Science & Business Media

Photographic imagery has come a long way from the pinhole cameras of the nineteenth century. Digital imagery, and its applications, develops in tandem with contemporary society's sophisticated literacy of this subtle medium. This book examines the ways in which digital images have become ever more ubiquitous as legal and medical evidence, just as they have become our primary source of news and have replaced paper-based financial documentation. Crucially, the contributions also analyze the very profound problems which have arisen alongside the digital image, issues of veracity and progeny that demand systematic and detailed response: It looks real, but is it? What camera captured it? Has it been doctored or subtly altered? Attempting to provide answers to these slippery issues, the book covers how digital images are created, processed and stored before moving on to set out the latest techniques for forensically examining images, and finally addressing practical issues such as courtroom admissibility. In an environment where even novice users can alter digital media, this authoritative publication will do much to stabilize public trust in these real, yet vastly flexible, images of the world around us.

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