

Angular Das Grosse Handbuch Zum Javascript Framew

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Real-time Coastal Observing Systems for Marine Ecosystem Dynamics and Harmful Algal Blooms Babin, Marcel 2008-06-05 The proliferation of harmful phytoplankton in marine ecosystems can cause massive fish kills, contaminate seafood with toxins, impact local and regional economies and dramatically affect ecological balance. Real-time observations are essential for effective short-term operational forecasting, but observation and modelling systems are still being developed. This volume provides guidance for developing real-time and near real-time sensing systems for observing and predicting plankton dynamics, including harmful algal blooms, in coastal waters. The underlying theory is explained and current trends in research and monitoring are discussed. Topics covered include: coastal ecosystems and dynamics of harmful algal blooms; theory and practical applications of in situ and remotely sensed optical detection of microalgal distributions and composition; theory and practical applications of in situ biological and chemical sensors for targeted species and toxin detection; integrated observing systems and platforms for detection; diagnostic and predictive modelling of ecosystems and harmful algal blooms, including data assimilation techniques; observational needs for the public and government; and future directions for research and operations.

The 100 Michael H. Hart 1978 A list of the one hundred most influential people in history features descriptions of the careers, contributions, and accomplishments of the political and religious leaders, inventors, writers, artists, and others who changed the course of history. Simultaneous.

Getting Started with Angular Minko Gechev 2017-02-24 Fast-track your web development skills to build high performance SPA with Angular 2 and beyond About This Book Up to date with the latest API changes introduced by Angular 2

and 4 Get familiar with the improvements to directives, change detection, dependency injection, router, and more Understand Angular's new component-based architecture Start using TypeScript to supercharge your Angular applications Who This Book Is For Do you want to jump in at the deep end of Angular? Or perhaps you're interested assessing the changes to AngularJS before moving over? If so, then "Getting Started with Angular" is the book for you. To get the most out of the book, you'll need to be familiar with AngularJS 1.x, and have a good understanding of JavaScript. What You Will Learn Understand the changes made from AngularJS with side-by-side code samples to help demystify the Angular learning curve Start working with Angular's new method of implementing directives Use TypeScript to write modern, powerful Angular applications Dig in to the change detection method, and other architectural changes to make sure you know what's going on under the hood of Angular Get to work with the new router in Angular Use the new features of Angular, including pipes, and the updated features such as forms, services, and dependency injection Learn about the server-side rendering in Angular to keep your new applications SEO-friendly Enhance your applications using Ahead-of-Time compilation and Web Workers In Detail I'm delighted to see this new update and hope it helps you build amazing things with Angular. - Misko Hevery, Creator of AngularJS and Angular Angular is the modern framework you need to build performant and robust web applications. This book is the quickest way to upgrade your AngularJS knowledge to the brave new world of Angular, and get grips with the framework. It starts with an overview putting the changes of the framework in context with version 1. After that, you will be taken on a TypeScript crash-course so you can take advantage of Angular in its native, statically-typed environment. You'll explore the new change detection mechanism in detail, how directives and components have changed, how you create applications with Angular, and much more. Next, you'll understand how to efficiently develop forms, use the router, implement communication with HTTP services, and transform data with custom pipes. Finally, we will take a look at the Angular's Ahead-of-Time compiler, angular-cli and other such tools that help us build professional applications. By the end of the book, you'll be ready to start building quick and efficient Angular applications compatible with v2 and v4, that take advantage of all the new features on offer. This book is up to date for the 2.4 release and is compatible with the 4.0 release as well. Style and approach Starting with a comparison between Angular versions, this book is filled with side-by-side code examples to help highlight the changes. Each chapter then looks at major changes to the framework and is filled with small examples and sample code to get you started.

The Analysis of Nuclear Materials and Their Environments Claude André Degueldre 2017-10-11 This book provides an overview of passive and interactive analytical techniques for nuclear materials. The book aims to update readers on new techniques available and provide an introduction for those who are new to the topic or are looking to move into actinides and nuclear materials science. The characterization of actinide species and radioactive materials is vital for understanding how these elements and radioactive isotopes are formed and behave and how these materials can be improved. The analysis of the actinides or

radioactive materials goes beyond spent fuel science to the applicable complete fuel cycle and including analysis of reactor materials.

Modern Architecture Otto Wagner 1988 In 1896, Otto Wagner's "Modern Architecture" shocked the European architectural community with its impassioned plea for an end to eclecticism and for a "modern" style suited to contemporary needs and ideals, utilizing the nascent constructional technologies and materials. Through the combined forces of his polemical, pedagogical, and professional efforts, this determined, newly appointed professor at the Vienna Academy of Fine Arts emerged in the late 1890s - along with such contemporaries as Charles Rennie Mackintosh in Glasgow and Louis Sullivan in Chicago - as one of the leaders of the revolution soon to be identified as the "Modern Movement." Wagner's historic manifesto is now presented in a new English translation - the first in almost ninety years - based on the expanded 1902 text and noting emendations made to the 1896, 1898, and 1914 editions. In his introduction, Dr. Harry Mallgrave examines Wagner's tract against the backdrop of nineteenth-century theory, critically exploring the affinities of Wagner's revolutionary élan with the German eclectic debate of the 1840s, the materialistic tendencies of the 1870s and 1880s, and the emerging cultural ideology of modernity. *Modern Architecture* is one of those rare works in the literature of architecture that not only proclaimed the dawning of a new era, but also perspicaciously and cogently shaped the issues and the course of its development; it defined less the personal aspirations of one individual and more the collective hopes and dreams of a generation facing the sanguine promise of a new century

Bengali Language Handbook Punya Sloka Ray 1966

Big Data and Smart Digital Environment Yousef Farhaoui 2019-02-21 This book reviews the state of the art of big data analysis and smart city. It includes issues which pertain to signal processing, probability models, machine learning, data mining, database, data engineering, pattern recognition, visualisation, predictive analytics, data warehousing, data compression, computer programming, smart city, etc. Data is becoming an increasingly decisive resource in modern societies, economies, and governmental organizations. Data science inspires novel techniques and theories drawn from mathematics, statistics, information theory, computer science, and social science. Papers in this book were the outcome of research conducted in this field of study. The latter makes use of applications and techniques related to data analysis in general and big data and smart city in particular. The book appeals to advanced undergraduate and graduate students, postdoctoral researchers, lecturers and industrial researchers, as well as anyone interested in big data analysis and smart city.

Opacity Walter F. Huebner 2014-01-02 This book covers all aspects of opacity and equations of state for gases, plasmas, and dust. The discussion emphasizes the continuous transformation of the equilibrium compositions of these phases as a function of temperature and density.

Basics of Geomatics Mario A. Gomasasca 2009-09-18 Geomatics is a neologism, the use of which is becoming increasingly widespread, even if it is not still universally accepted. It includes several disciplines and techniques for the study of the Earth's surface and its environments, and computer science plays a decisive role. A more meaningful and appropriate expression is Geo-spatial Information or GeoInformation. Geo-spatial Information embeds topography in its more modern forms (measurements with electronic instrumentation, sophisticated techniques of data analysis and network compensation, global satellite positioning techniques, laser scanning, etc.), analytical and digital photogrammetry, satellite and airborne remote sensing, numerical cartography, geographical information systems, decision support systems, WebGIS, etc. These specialized fields are intimately interrelated in terms of both the basic science and the results pursued: rigid separation does not allow us to discover several common aspects and the fundamental importance assumed in a search for solutions in the complex survey context. The objective pursued by Mario A. Gomasasca, one that is only apparently modest, is to publish an integrated text on the surveying theme, containing simple and comprehensible concepts relevant to experts in Geo-spatial Information and/or especially in one of the disciplines that compose it. At the same time, the book is rigorous and synthetic, describing with precision the main instruments and methods connected to the multiple techniques available today.

The Translator's Invisibility Lawrence Venuti 2012-06-25 Since publication over ten years ago, *The Translator's Invisibility* has provoked debate and controversy within the field of translation and become a classic text. Providing a fascinating account of the history of translation from the seventeenth century to the present day, Venuti shows how fluency prevailed over other translation strategies to shape the canon of foreign literatures in English and investigates the cultural consequences of the receptor values which were simultaneously inscribed and masked in foreign texts during this period. The author locates alternative translation theories and practices in British, American and European cultures which aim to communicate linguistic and cultural differences instead of removing them. In this second edition of his work, Venuti: clarifies and further develops key terms and arguments responds to critical commentary on his argument incorporates new case studies that include: an eighteenth century translation of a French novel by a working class woman; Richard Burton's controversial translation of the Arabian Nights; modernist poetry translation; translations of Dostoevsky by the bestselling translators Richard Pevear and Larissa Volokhonsky; and translated crime fiction updates data on the current state of translation, including publishing statistics and translators' rates. *The Translator's Invisibility* will be essential reading for students of translation studies at all levels. Lawrence Venuti is Professor of English at Temple University, Philadelphia. He is a translation theorist and historian as well as a translator and his recent publications include: *The Scandals of Translation: Towards an Ethics of Difference* and *The Translation Studies Reader*, both published by Routledge.

Semantic Applications Thomas Hoppe 2018-04-13 This book describes methodologies for developing semantic applications. Semantic applications are software applications which explicitly or implicitly use the semantics, i.e. the meaning of a domain terminology, in order to improve usability, correctness, and completeness. An example is semantic search, where synonyms and related terms are used for enriching the results of a simple text-based search. Ontologies, thesauri or controlled vocabularies are the centerpiece of semantic applications. The book includes technological and architectural best practices for corporate use. The authors are experts from industry and academia with experience in developing semantic applications.

Testgetriebene Entwicklung mit JavaScript Sebastian Springer 2015-02-25 Entwickeln oder warten Sie JavaScript-Webapplikationen und haben immer ein ungutes Gefühl, wenn Sie Ihre Software in Betrieb nehmen? Dann wird es höchste Zeit, dass Sie sich mit testgetriebener Entwicklung vertraut machen. Dieses Buch zeigt JavaScript-Entwicklern, wie Test-Driven Development (TDD) in der Praxis funktionieren kann. Anschaulich macht Sie Sebastian Springer zunächst mit den allgemeinen TDD-Grundlagen vertraut. Er zeigt, wie Sie diese auf das JavaScript-Umfeld übertragen können und stellt verschiedene Testframeworks vor (Jasmine, QUnit, Karma und JsTestDriver). In einer ausführlichen Beispielanwendung können Sie das Gelernte dann im Red-Green-Refactor- Zyklus praktisch nachvollziehen und üben. Darauf aufbauend lernen Sie weitere Facetten der testgetriebenen Entwicklung mit JavaScript kennen, die für Ihre tägliche Arbeit hilfreich oder notwendig sind, u.a.: • Testinfrastruktur für mehrere Browser • Spys, Stubs und Mocks • Abhängigkeiten vom DOM • Asynchrone Operationen • Testen von Bestandscode • Node.js-Anwendungen testgetrieben entwickeln • Werkzeuge, die das Testen leichter machen TDD-Einsteiger haben nach der Lektüre einen Überblick über TDD im JavaScript-Umfeld und können eigene Projekte testgetrieben durchführen. JavaScript-Entwickler, die bereits testgetrieben entwickeln, können die fortgeschrittenen Kapitel zum Nachschlagen und Vertiefen verwenden. Vorausgesetzt werden Erfahrungen in der JavaScript-Entwicklung.

Programming TypeScript Boris Cherny 2019-04-25 Any programmer working with a dynamically typed language will tell you how hard it is to scale to more lines of code and more engineers. That's why Facebook, Google, and Microsoft invented gradual static type layers for their dynamically typed JavaScript and Python code. This practical book shows you how one such type layer, TypeScript, is unique among them: it makes programming fun with its powerful static type system. If you're a programmer with intermediate JavaScript experience, author Boris Cherny will teach you how to master the TypeScript language. You'll understand how TypeScript can help you eliminate bugs in your code and enable you to scale your code across more engineers than you could before. In this book, you'll: Start with the basics: Learn about TypeScript's different types and type operators, including what they're for and how they're used Explore advanced topics: Understand TypeScript's sophisticated type system, including how to safely handle errors and build asynchronous programs Dive in hands-on: Use TypeScript with your favorite frontend and backend frameworks, migrate your

existing JavaScript project to TypeScript, and run your TypeScript application in production

Enterprise Knowledge Infrastructures Ronald Maier 2009-04-21 Success of an organization is increasingly dependent on its capability to create an environment in order to improve productivity of knowledge work. This book focuses on the concepts, models and technologies that are used to design and implement such an environment. It develops the vision of a modular, yet highly integrated enterprise knowledge infrastructure and presents an idealized architecture replete with current technologies and systems. The most important streams of technological development that are covered in the book are communication, collaboration, document and content management, e-learning, enterprise portals, business process management, information life cycle management, information retrieval and visualization, knowledge management, mobile computing, application and network infrastructure, Semantic Web and social software. It includes learning goals, exercises and case examples that help the reader to easily understand and practice the concepts.

Digital Image Processing Wilhelm Burger 2012-01-19 Written as an introduction for undergraduate students, this textbook covers the most important methods in digital image processing. Formal and mathematical aspects are discussed at a fundamental level and various practical examples and exercises supplement the text. The book uses the image processing environment ImageJ, freely distributed by the National Institute of Health. A comprehensive website supports the book, and contains full source code for all examples in the book, a question and answer forum, slides for instructors, etc. Digital Image Processing in Java is the definitive textbook for computer science students studying image processing and digital processing.

Impedance Sensors for Fast Multiphase Flow Measurement and Imaging Marco Jose Da Silva 2008

Developments and Advances in Defense and Security Álvaro Rocha 2018-04-05 This book includes a selection of articles from The 2018 Multidisciplinary International Conference of Research Applied to Defense and Security (MICRADS'18), held in Salinas, Peninsula de Santa Elena, Ecuador, from April 18 to 20, 2018. MICRADS is an international forum for researchers and practitioners to present and discuss the most recent innovations, trends, results, experiences and concerns in the various areas of defense and security, together with their technological development and applications. The main topics covered are: Information and Communication Technology in Education; Computer Vision in Military Applications; Engineering Analysis and Signal Processing; Cybersecurity and Cyberdefense; Maritime Security and Safety; Strategy, Geopolitics and Oceanopolitics; Defense planning; Leadership (e-leadership); Defense Economics; Defense Logistics; Health Informatics in Military Applications; Simulation in Military Applications; Computer Networks, Mobility and Pervasive Systems; Military Marketing; Military Physical Training; Assistive Devices and Wearable Technology; Naval and Military Engineering;

Weapons and Combat Systems; Operational Oceanography. The book is aimed at all those dealing with defense and security issues, including practitioners, researchers and teachers as well as undergraduate, graduate, master's and doctorate students.

CyberGIS for Geospatial Discovery and Innovation Shaowen Wang 2018-06-26 This book elucidates how cyberGIS (that is, new-generation geographic information science and systems (GIS) based on advanced computing and cyberinfrastructure) transforms computation- and data-intensive geospatial discovery and innovation. It comprehensively addresses opportunities and challenges, roadmaps for research and development, and major progress, trends, and impacts of cyberGIS in the era of big data. The book serves as an authoritative source of information to fill the void of introducing this exciting and growing field. By providing a set of representative applications and science drivers of cyberGIS, this book demonstrates how cyberGIS has been advanced to enable cutting-edge scientific research and innovative geospatial application development. Such cyberGIS advances are contextualized as diverse but interrelated science and technology frontiers. The book also emphasizes several important social dimensions of cyberGIS such as for empowering deliberative civic engagement and enabling collaborative problem solving through structured participation. In sum, this book will be a great resource to students, academics, and geospatial professionals for learning cutting-edge cyberGIS, geospatial data science, high-performance computing, and related applications and sciences.

Handbuch Mobile Learning Claudia de Witt 2018-05-03 Das Handbuch stellt Grundlagen, Anwendungen und Perspektiven digitalisierten Lernens und Lehrens mit mobilen Endgeräten vor. Es behandelt theoretische Bezüge von Mobile Learning ebenso wie praktische Einsätze mobiler Endgeräte. Technologische Grundlagen, didaktische Designs mit Lernimplikationen und Einsatzmöglichkeiten von Mobile Learning in den verschiedenen Bildungskontexten – Schule, Hochschule, Aus- und Weiterbildung – werden erläutert genauso wie grundlegende Bestimmungen des Datenschutzes und des Copyrights. Das Handbuch spannt damit einen Bogen von der historischen Entwicklung bis hin zu zukünftigen Aussichten von Mobile Learning. Die Beiträge von 91 Autorinnen und Autoren fassen die zentralen wissenschaftlichen und für die Praxis relevanten Erkenntnisse über Mobile Learning zusammen, machen Potenziale und Veränderungen durch die zunehmende digitale Mobilität deutlich und geben Impulse für zukünftige Gestaltungsaufgaben hinsichtlich der Digitalisierung im Bildungsbereich.

Metrology in Urban Drainage and Stormwater Management: Plug and pray Francois Clemens 2021-08-15 This book presents the advancements made in applied metrology in the field of Urban Drainage and Storm water Management over the past two decades in scientific research as well as in practical applications. Given the broadness of this subject (measuring principles, uncertainty in data, data validation, data storage and communication, design, maintenance and management of monitoring networks, technical details of sensor technology), the focus is on water quantity and a sound metrological basis. The book offers common ground for academics and practitioners when setting up monitoring

projects in urban drainage and storm water management. This will enable an easier exchange of results so as to allow for a faster scientific progress in the field. A second, but equally important goal, is to allow practitioners access to scientific developments and gained experience when it comes to monitoring urban drainage and storm water systems. In-depth description of international case studies covering all aspects discussed in the book are presented, along with self-training exercises and codes available for readers on a companion website.

Earth Observation Open Science and Innovation Pierre-Philippe Mathieu
2018-01-23 This book is published open access under a CC BY 4.0 license. Over the past decades, rapid developments in digital and sensing technologies, such as the Cloud, Web and Internet of Things, have dramatically changed the way we live and work. The digital transformation is revolutionizing our ability to monitor our planet and transforming the way we access, process and exploit Earth Observation data from satellites. This book reviews these megatrends and their implications for the Earth Observation community as well as the wider data economy. It provides insight into new paradigms of Open Science and Innovation applied to space data, which are characterized by openness, access to large volume of complex data, wide availability of new community tools, new techniques for big data analytics such as Artificial Intelligence, unprecedented level of computing power, and new types of collaboration among researchers, innovators, entrepreneurs and citizen scientists. In addition, this book aims to provide readers with some reflections on the future of Earth Observation, highlighting through a series of use cases not just the new opportunities created by the New Space revolution, but also the new challenges that must be addressed in order to make the most of the large volume of complex and diverse data delivered by the new generation of satellites.

Digital Transformation Reimund Neugebauer 2019-05-14 With the exception of written letters and personal conversations, digital technology forms the basis of nearly every means of communication and information that we use today. It is also used to control the essential elements of economic, scientific, and public and private life: security, production, mobility, media, and healthcare. Without exaggerating it is possible to say that digital technology has become one of the foundations of our technologically oriented civilization. The benefits of modern data technology are so impressive and the potential for future applications so enormous that we cannot fail to promote its development if we are to retain our leading role in the competitive international marketplace. In this process, security plays a vital role in each of the areas of application of digital technology – the more technological sectors are entrusted to data systems technology, the more important their reliability becomes to us. Developing digital systems further while simultaneously ensuring that they always act and respond in the best interests of people is a central goal of the technological research and development propagated and conducted by Fraunhofer.

grep Pocket Reference John Bambenek 2009-01-14 grep Pocket Reference is the

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first guide devoted to grep, the powerful Unix content-location utility. This handy book is ideal for system administrators, security professionals, developers, and others who want to learn more about grep and take new approaches with it -- for everything from mail filtering and system log management to malware analysis. With grep Pocket Reference, you will: Learn methods for filtering large files for specific content Acquire information not included in the current grep documentation Get several tricks for using variants such as egrep Keep key information about grep right at your fingertips Find the answers you need about grep quickly and easily. If you're familiar with this utility, grep Pocket Reference will help you refresh your basic knowledge, understand rare situations, and work more efficiently. If you're new to grep, this book is the best way to get started.

Serious Games Bobbie Fletcher 2021-10-04 This book constitutes the refereed proceedings of the 7th Joint International Conference on Serious Games, JSCG 2021, as virtual event, in January 2022. The 17 full papers presented together with 3 short papers were carefully reviewed and selected from 28 submissions. JSCG 2021 is dedicated to serious games and its interdisciplinary characteristics combining game concepts and technologies required in the different application domains.

A Little History of the World E. H. Gombrich 2014-10-01 E. H. Gombrich's *Little History of the World*, though written in 1935, has become one of the treasures of historical writing since its first publication in English in 2005. The Yale edition alone has now sold over half a million copies, and the book is available worldwide in almost thirty languages. Gombrich was of course the best-known art historian of his time, and his text suggests illustrations on every page. This illustrated edition of the *Little History* brings together the pellucid humanity of his narrative with the images that may well have been in his mind's eye as he wrote the book. The two hundred illustrations--most of them in full color--are not simple embellishments, though they are beautiful. They emerge from the text, enrich the author's intention, and deepen the pleasure of reading this remarkable work. For this edition the text is reset in a spacious format, flowing around illustrations that range from paintings to line drawings, emblems, motifs, and symbols. The book incorporates freshly drawn maps, a revised preface, and a new index. Blending high-grade design, fine paper, and classic binding, this is both a sumptuous gift book and an enhanced edition of a timeless account of human history.

JavaScript for Impatient Programmers Axel Rauschmayer 2019-08-30 This book makes JavaScript less challenging to learn for newcomers, by offering a modern view that is as consistent as possible. Highlights: Get started quickly, by initially focusing on modern features. Test-driven exercises and quizzes available for most chapters (sold separately). Covers all essential features of JavaScript, up to and including ES2019. Optional advanced sections let you dig deeper. No prior knowledge of JavaScript is required, but you should know how to program.

Node.js Design Patterns Mario Casciaro 2016-07-18 Get the best out of Node.js by mastering its most powerful components and patterns to create modular and scalable applications with ease About This Book Create reusable patterns and modules by leveraging the new features of Node.js . Understand the asynchronous single thread design of node and grasp all its features and patterns to take advantage of various functions. This unique guide will help you get the most out of Node.js and its ecosystem. Who This Book Is For The book is meant for developers and software architects with a basic working knowledge of JavaScript who are interested in acquiring a deeper understanding of how to design and develop enterprise-level Node.js applications. Basic knowledge of Node.js is also helpful to get the most out of this book. What You Will Learn Design and implement a series of server-side JavaScript patterns so you understand why and when to apply them in different use case scenarios Become comfortable with writing asynchronous code by leveraging constructs such as callbacks, promises, generators and the async-await syntax Identify the most important concerns and apply unique tricks to achieve higher scalability and modularity in your Node.js application Untangle your modules by organizing and connecting them coherently Reuse well-known techniques to solve common design and coding issues Explore the latest trends in Universal JavaScript, learn how to write code that runs on both Node.js and the browser and leverage React and its ecosystem to implement universal applications In Detail Node.js is a massively popular software platform that lets you use JavaScript to easily create scalable server-side applications. It allows you to create efficient code, enabling a more sustainable way of writing software made of only one language across the full stack, along with extreme levels of reusability, pragmatism, simplicity, and collaboration. Node.js is revolutionizing the web and the way people and companies create their software. In this book, we will take you on a journey across various ideas and components, and the challenges you would commonly encounter while designing and developing software using the Node.js platform. You will also discover the "Node.js way" of dealing with design and coding decisions. The book kicks off by exploring the basics of Node.js describing it's asynchronous single-threaded architecture and the main design patterns. It then shows you how to master the asynchronous control flow patterns, and the stream component and it culminates into a detailed list of Node.js implementations of the most common design patterns as well as some specific design patterns that are exclusive to the Node.js world. Lastly, it dives into more advanced concepts such as Universal Javascript, and scalability' and it's meant to conclude the journey by giving the reader all the necessary concepts to be able to build an enterprise grade application using Node.js. Style and approach This book takes its intended readers through a comprehensive explanation to create a scalable and efficient real-time server-side apps.

Effective TypeScript Dan Vanderkam 2019-10-17 TypeScript is a typed superset of JavaScript with the potential to solve many of the headaches for which JavaScript is famous. But TypeScript has a learning curve of its own, and understanding how to use it effectively can take time. This book guides you through 62 specific ways to improve your use of TypeScript. Author Dan Vanderkam, a principal software engineer at Sidewalk Labs, shows you how to

apply these ideas, following the format popularized by Effective C++ and Effective Java (both from Addison-Wesley). You'll advance from a beginning or intermediate user familiar with the basics to an advanced user who knows how to use the language well. Effective TypeScript is divided into eight chapters: Getting to Know TypeScript TypeScript's Type System Type Inference Type Design Working with any Types Declarations and @types Writing and Running Your Code Migrating to TypeScript

Industrial Internet of Things Sabina Jeschke 2016-10-12 This book develops the core system science needed to enable the development of a complex industrial internet of things/manufacturing cyber-physical systems (IIoT/M-CPS). Gathering contributions from leading experts in the field with years of experience in advancing manufacturing, it fosters a research community committed to advancing research and education in IIoT/M-CPS and to translating applicable science and technology into engineering practice. Presenting the current state of IIoT and the concept of cybermanufacturing, this book is at the nexus of research advances from the engineering and computer and information science domains. Readers will acquire the core system science needed to transform to cybermanufacturing that spans the full spectrum from ideation to physical realization.

Expanding the Frontiers of Visual Analytics and Visualization John Dill 2012-04-17 The field of computer graphics combines display hardware, software, and interactive techniques in order to display and interact with data generated by applications. Visualization is concerned with exploring data and information graphically in such a way as to gain information from the data and determine significance. Visual analytics is the science of analytical reasoning facilitated by interactive visual interfaces. *Expanding the Frontiers of Visual Analytics and Visualization* provides a review of the state of the art in computer graphics, visualization, and visual analytics by researchers and developers who are closely involved in pioneering the latest advances in the field. It is a unique presentation of multi-disciplinary aspects in visualization and visual analytics, architecture and displays, augmented reality, the use of color, user interfaces and cognitive aspects, and technology transfer. It provides readers with insights into the latest developments in areas such as new displays and new display processors, new collaboration technologies, the role of visual, multimedia, and multimodal user interfaces, visual analysis at extreme scale, and adaptive visualization.

Chemical Solution Deposition of Functional Oxide Thin Films Theodor Schneller 2014-01-24 This is the first text to cover all aspects of solution processed functional oxide thin-films. Chemical Solution Deposition (CSD) comprises all solution based thin-film deposition techniques, which involve chemical reactions of precursors during the formation of the oxide films, i. e. sol-gel type routes, metallo-organic decomposition routes, hybrid routes, etc. While the development of sol-gel type processes for optical coatings on glass by silicon dioxide and titanium dioxide dates from the mid-20th century, the first CSD derived electronic oxide thin films, such as lead zirconate titanate, were

prepared in the 1980's. Since then CSD has emerged as a highly flexible and cost-effective technique for the fabrication of a very wide variety of functional oxide thin films. Application areas include, for example, integrated dielectric capacitors, ferroelectric random access memories, pyroelectric infrared detectors, piezoelectric micro-electromechanical systems, antireflective coatings, optical filters, conducting-, transparent conducting-, and superconducting layers, luminescent coatings, gas sensors, thin film solid-oxide fuel cells, and photoelectrocatalytic solar cells. In the appendix detailed "cooking recipes" for selected material systems are offered.

Mobile Technologies and Applications for the Internet of Things Michael E. Auer 2019 This book discusses and assesses the latest trends in the interactive mobile field, and presents the outcomes of the 12th International Conference on Interactive Mobile Communication Technologies and Learning (IMCL2018), which was held in Hamilton, Canada on October 11 and 12, 2018. Today, interactive mobile technologies are at the core of many - if not all - fields of society. Not only does the younger generation of students expect a mobile working and learning environment, but also the new ideas, technologies and solutions coming out practically every day are further strengthening this trend. Since its inception in 2006, the conference has been devoted to highlighting new approaches in interactive mobile technologies with a focus on learning. The IMCL conferences have since established themselves as a valuable forum for exchanging and discussing new research results and relevant trends, as well as practical experience and best-practice examples. This book contains papers in the fields of: Interactive Collaborative Mobile Learning Environments Mobile Health Care Training Game-based Learning Design of Internet of Things (IoT) Devices and Applications Assessment and Quality in Mobile Learning. Its potential readership includes policymakers, educators and researchers in pedagogy and learning theory, schoolteachers, the learning industry, further education lecturers, etc.

Handbook of Stemmatology Philipp Roelli 2020-09-07 Stemmatology studies aspects of textual criticism that use genealogical methods to analyse a set of copies of a text whose autograph has been lost. This handbook is the first to cover the entire field, encompassing both theoretical and practical aspects of traditional as well as modern digital methods and their history. As an art (ars), stemmatology's main goal is editing and thus presenting to the reader a historical text in the most satisfactory way. As a more abstract discipline (scientia), it is interested in the general principles of how texts change in the process of being copied. Thirty eight experts from all of the fields involved have joined forces to write this handbook, whose eight chapters cover material aspects of text traditions, the genesis and methods of traditional "Lachmannian" textual criticism and the objections raised against it, as well as modern digital methods used in the field. The two concluding chapters take a closer look at how this approach towards texts and textual criticism has developed in some disciplines of textual scholarship and compare methods used in other fields that deal with "descent with modification". The handbook thus serves as an introduction to this interdisciplinary field.

Prostate Cancer Pamela J. Russell 2003 A collection of basic and advanced molecular methods that reveal those markers essential for more accurate diagnoses of specific diseases, and in developing new treatment strategies. The techniques range from in vitro methods to in vivo models of prostate cancer, and include new methods for the accurate diagnosis of prostate cancer, proteome and microarray analyses, and new strategies for the treatment of refractory disease. Each method is described in step-by-step detail to ensure successful results and avoid failure. Employ the latest techniques to study the disease markers in prostate cancer Explore new strategies for the treatment of refractory prostate cancer Review the current status of prostate cancer research Study the enzymes secreted by prostate cancer cells See how androgen receptor changes can influence the outcome of hormonal treatments.

Quantitative Texture Analysis Hans Joachim Bunge 1982

Google Earth Engine Applications Lalit Kumar 2019-04-23 In a rapidly changing world, there is an ever-increasing need to monitor the Earth's resources and manage it sustainably for future generations. Earth observation from satellites is critical to provide information required for informed and timely decision making in this regard. Satellite-based earth observation has advanced rapidly over the last 50 years, and there is a plethora of satellite sensors imaging the Earth at finer spatial and spectral resolutions as well as high temporal resolutions. The amount of data available for any single location on the Earth is now at the petabyte-scale. An ever-increasing capacity and computing power is needed to handle such large datasets. The Google Earth Engine (GEE) is a cloud-based computing platform that was established by Google to support such data processing. This facility allows for the storage, processing and analysis of spatial data using centralized high-power computing resources, allowing scientists, researchers, hobbyists and anyone else interested in such fields to mine this data and understand the changes occurring on the Earth's surface. This book presents research that applies the Google Earth Engine in mining, storing, retrieving and processing spatial data for a variety of applications that include vegetation monitoring, cropland mapping, ecosystem assessment, and gross primary productivity, among others. Datasets used range from coarse spatial resolution data, such as MODIS, to medium resolution datasets (Worldview -2), and the studies cover the entire globe at varying spatial and temporal scales.

Digital Science Tatiana Antipova 2022-01-17 This book gathers selected papers that were submitted to the 2021 International Conference on Digital Science (DSIC 2021) that aims to make available the discussion and the publication of papers on all aspects of single and multidisciplinary research on conference topics. DSIC 2021 was held on October 15–17, 2021. An important characteristic feature of conference is the short publication time and worldwide distribution. Written by respected researchers, the book covers a range of innovative topics related to: digital economics; digital education; digital engineering; digital environmental sciences; digital finance, business and banking; digital health care, hospitals and rehabilitation; digital media; digital medicine, pharma and

public health; digital public administration; digital technology and applied sciences. This book may be used for private and professional non-commercial research and classroom use (e.g., sharing the contribution by mail or in hard copy form with research colleagues for their professional non-commercial research and classroom use); for use in presentations or handouts for any level students, researchers, etc.; for the further development of authors' scientific career (e.g., by citing, and attaching contributions to job or grant application).

Physical (A)Causality Karl Svozil 2019-06-06 This open access book addresses the physical phenomenon of events that seem to occur spontaneously and without any known cause. These are to be contrasted with events that happen in a (pre-)determined, predictable, lawful, and causal way. All our knowledge is based on self-reflexive theorizing, as well as on operational means of empirical perception. Some of the questions that arise are the following: are these limitations reflected by our models? Under what circumstances does chance kick in? Is chance in physics merely epistemic? In other words, do we simply not know enough, or use too crude levels of description for our predictions? Or are certain events "truly", that is, irreducibly, random? The book tries to answer some of these questions by introducing intrinsic, embedded observers and provable unknowns; that is, observables and procedures which are certified (relative to the assumptions) to be unknowable or undoable. A (somewhat iconoclastic) review of quantum mechanics is presented which is inspired by quantum logic. Postulated quantum (un-)knowables are reviewed. More exotic unknowns originate in the assumption of classical continua, and in finite automata and generalized urn models, which mimic complementarity and yet maintain value definiteness. Traditional conceptions of free will, miracles and dualistic interfaces are based on gaps in an otherwise deterministic universe.

Counteracting Urban Heat Island Effects in a Global Climate Change Scenario
Francesco Musco 2016-08-30 Urban heat islands are a new type of microclimatic phenomenon that causes a significant increase in the temperature of cities compared to surrounding areas. The phenomenon has been enforced by the current trend towards climate change. Although experts consider urban heat islands an urgent European Union public health concern, there are too few policies that address it. The EU carried out a project to learn more about this phenomenon through pilot initiatives. The pilots included feasibility studies and strategies for appropriately altering planning rules and governance to tackle the problem of urban heat islands. The pilots were carried out in eight metropolitan areas: Bologna/Modena, Budapest, Ljubljana, Lodz, Prague, Stuttgart, Venice/Padova, and Vienna. The feasibility studies carried out in these pilot areas focused on the specific morphology of EU urban areas, which are often characterised by the presence of historical old towns.