

## Angular 100 Operativo Da Zero Alla Realizzazione Di Una Web App In 24 Ore

REACT This book/tutorial is about ReactJS and it is designed to move you from beginner to advanced programming. This book is based on 17 chapters well managed and it will help you to become a React JS expert in less than 7 days. Each chapter will contain a certain number of relevant topics with illustrations and exercises where necessary, this will all be finished off with an end of chapter quiz for an easy and enjoyable learning. Benefits of reading this book that you're not going to find anywhere else: It helps you to understand React Easily. You can learn how to install Node JS based on ReactJS. With React you can build applications fast. ReactJS is SEO friendly. It makes code writing simple. We can use React with other libraries. React JS is very light weight front-end framework which allows developers to create web applications faster. Great Community Support. Supports State Management using Redux. **CLICK ADD TO CART TO GET THIS AMAZING BOOK!**

By covering the impressive capabilities of ASP.NET Core 5 and Angular 11, right from project setup through to the deployment phase, this fully revised and updated edition will help you develop your skills effectively.

The past twenty years have seen a number of breakthroughs in astrophysics and cosmology, some of which have been awarded Nobel prizes. These physics triumphs highlight the fact that while students need a solid grounding in the fundamentals of astrophysics and cosmology, sight of the basics of the fundamental interactions in physics must not be lost. This book presents papers based on lectures given at the 200th Course of the International School of Physics "Enrico Fermi", on Gravitation and Cosmology, held in Varenna, Italy, from 3 - 12 July 2017. The aim of the school was to expose students to state-of-the-art research in the field of gravitational waves and cosmology, from both a theoretical and experimental point of view. Lectures were organized in such a way as to foster interaction between the two communities, and a wide range of topics was addressed. In the gravitational waves section, topics covered include experimental issues connected with gravitational wave detection and the new field of multi-messenger astronomy, as well as more astrophysical aspects. In the section on cosmology, there are contributions on the early universe, on the cosmic microwave background (CMB) and on redshift surveys. Other areas covered include a review of inflationary scenarios; the non-Gaussian features of primordial density fluctuations; and the physical mechanisms responsible for the spectral distortions of the blackbody spectrum of the CMB. The book provides an overview of important research developments and will be of interest to all students of gravitation and cosmology.

This book is a comprehensive guide to the surgical repair of inguinal and abdominal wall hernias that not only describes all potential approaches, but also places them in the context of the anatomy of the region, the pathology, and the

advances in scientific knowledge over the past decade. It documents in detail the individual techniques applicable in each region (inguinal, femoral, and ventral), highlighting tips and tricks and focusing on indications, potential complications, and outcomes. In addition, it presents cases of incisional hernia and examines less frequent and rare cases and complex situations. Written for surgeons from around the globe, it includes procedures used in wealthy, developed countries and those without mesh more commonly employed in developing countries. With a format designed to facilitate use in daily practice, it is invaluable for residents seeking step-by-step guidance on procedures ranging from repair of simple inguinal hernias to complex reconstruction; for general surgeons who frequently perform hernia repairs; and for hernia specialists aiming to achieve optimal results. It also appeals to researchers with an interest in the scientific background to hernia surgery.

Over the last few years, there has been a convergence between the fields of ultrafast science, nonlinear optics, optical frequency metrology, and precision laser spectroscopy. These fields have been developing largely independently since the birth of the laser, reaching remarkable levels of performance. On the ultrafast frontier, pulses of only a few cycles long have been produced, while in optical spectroscopy, the precision and resolution have reached one part in  $10^{15}$ . Although these two achievements appear to be completely disconnected, advances in nonlinear optics provided the essential link between them. The resulting convergence has enabled unprecedented advances in the control of the electric field of the pulses produced by femtosecond mode-locked lasers. The corresponding spectrum consists of a comb of sharp spectral lines with well-defined frequencies. These new techniques and capabilities are generally known as “femtosecond comb technology.” They have had dramatic impact on the diverse fields of precision measurement and extreme nonlinear optical physics. The historical background for these developments is provided in the Foreword by two of the pioneers of laser spectroscopy, John Hall and Theodor Hänsch. Indeed the developments described in this book were foreshadowed by Hänsch’s early work in the 1970s when he used picosecond pulses to demonstrate the connection between the time and frequency domains in laser spectroscopy. This work complemented the advances in precision laser stabilization developed by Hall.

One marker of the majesty of ancient Rome is its surviving architectural legacy, the stunning remains of which are scattered throughout the circum-Mediterranean landscape. Surprisingly, one truly remarkable aspect of this heritage remains relatively unknown. There exists beneath the waters of the Mediterranean the physical remnants of a vast maritime infrastructure that sustained and connected the western world’s first global empire and economy. The key to this incredible accomplishment and to the survival of structures in the hostile environment of the sea for two thousand years was maritime concrete, a building material invented and then employed by Roman builders on a grand

scale to construct harbor installations anywhere they were needed, rather than only in locations with advantageous geography or topography. This book explains how the Romans built so successfully in the sea with their new invention. The story is a stimulating mix of archaeological, geological, historical and chemical research, with relevance to both ancient and modern technology. It also breaks new ground in bridging the gap between science and the humanities by integrating analytical materials science, history, and archaeology, along with underwater exploration. The book will be of interest to anyone interested in Roman architecture and engineering, and it will hold special interest for geologists and mineralogists studying the material characteristics of pyroclastic volcanic rocks and their alteration in seawater brines. The demonstrable durability and longevity of Roman maritime concrete structures may be of special interest to engineers working on cementing materials appropriate for the long-term storage of hazardous substances such as radioactive waste. A pioneering methodology was used to bore into maritime structures both on land and in the sea to collect concrete cores for testing in the research laboratories of the CTG Italcementi Group, a leading cement producer in Italy, the University of Berkeley, and elsewhere. The resulting mechanical, chemical and physical analysis of 36 concrete samples taken from 11 sites in Italy and the eastern Mediterranean have helped fill many gaps in our knowledge of how the Romans built in the sea. To gain even more knowledge of the ancient maritime technology, the directors of the Roman Maritime Concrete Study (ROMACONS) engaged in an ambitious and unique experimental archaeological project – the construction underwater of a reproduction of a Roman concrete pier or pila. The same raw materials and tools available to the ancient builders were employed to produce a reproduction concrete structure that appears to be remarkably similar to the ancient one studied during ROMACONS's fieldwork between 2002-2009. This volume reveals a remarkable and unique archaeological project that highlights the synergy that now exists between the humanities and science in our continuing efforts to understand the past. It will quickly become a standard research tool for all interested in Roman building both in the sea and on land, and in the history and chemistry of marine concrete. The authors also hope that the data and observations it presents will stimulate further research by scholars and students into related topics, since we have so much more to learn in the years ahead.

Work with Typescript and get the most from this versatile open source language. Author Adam Freeman begins this book by describing Typescript and the benefits it offers, and goes on to show you how to use TypeScript in realistic scenarios, going in-depth to give you the knowledge you need. Starting from the nuts-and-bolts and building up to the most advanced and sophisticated features, you will learn how TypeScript builds on the JavaScript type system to create a safer and more productive development experience and understand how TypeScript can be used to create applications using popular frameworks, including Node.js, Angular, React, and Vue.js. Each topic is covered clearly and

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concisely and is packed with the details you need to learn to be truly effective. The most important features are given a no-nonsense in-depth treatment and chapters include common problems and details of how to avoid them. What You Will Learn Gain a solid understanding of the TypeScript language and tools Use TypeScript for client- and server-side development Extend and customize TypeScript Debug and unit test your TypeScript code Who This Book Is For Developers who want to start using TypeScript, for example to create rich web applications using Angular, React, or Vue.js Adam Freeman is an experienced IT professional who has held senior positions in a range of companies, most recently serving as chief technology officer and chief operating officer of a global bank. Now retired, he spends his time writing and long-distance running.

This report covers a wide range of issues related to sedimentation. Its objectives are to present to readers a basic understanding of operational methods of sediment transport measurement, and serve as a practical reference in dealing with sedimentation engineering.--Publisher's description.

A comprehensive guide to the theory, practice and applications of optical tweezers, combining state-of-the-art research with a strong pedagogic approach.

ng-book. The in-depth, complete, and up-to-date book on Angular. Become an Angular expert today. Updated for Angular, Angular CLI, and Community Style Guide Ready to master Angular? What if you could master the entire framework - with solid foundations - in less time without beating your head against a wall? Imagine how quickly you could work if you knew the best practices and the best tools? Stop wasting your time searching and have everything you need to be productive in one, well-organized place, with complete examples to get your project up without needing to resort to endless hours of research. You will learn what you need to know to work professionally with ng-book: The Complete Book on Angular. Get up and running quickly The first chapter opens with building your first Angular app. Within the first few minutes, you'll know enough to have an app running Lots of Sample Apps and Code When you buy ng-book, you're not buying just a book, but dozens of code examples. Every chapter in the book comes with a complete project that uses the concepts in the chapter. The code is available for download, free from our website. Table of Contents Writing your first Angular web application How Angular Works Built-in Directives Forms in Angular 2 HTTP and APIs Routing Dependency Injection Data Architecture in Angular 2 Data Architecture with Observables and RxJS Data Architecture with Redux Redux and TypeScript Data Architecture with Redux Advanced Components Testing Converting an Angular 1 app to Angular Comprehensive You'll learn core Angular concepts - from how Angular works under the hood, to rich interactive components, from in-depth testing to real-world applications Best Practices Learn Angular best practices, such as: testing, code organization, and how to structure your app for performance. We'll walk through practical, common examples of how to implement complete components of your applications Example Apps included in the book The book comes with sample apps that show you how to create: A component-based Reddit clone A real-time chat app using RxJS Observables A YouTube search-as-you-type app A Spotify search for tracks with playable song preview Plus lots more mini-examples that show you how to write Components, how to use Forms, and how to use APIs The code examples currently have over 5,500+ lines of runnable code (TypeScript, non-comment lines) What our Customers Say "Fantastic work guys! I have no idea where I'd be with Angular without ng-book. You guys have made this SOOOO much easier to learn and keep up with. Thanks again..you guys are awesome!" -- Jacob Cheriathundam "Just finished ng-book2. I think it is the best learning material one can find about Angular today." -- Jegor Uglov FAQ What version does the book cover? This



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revision of the book covers up to angular-4.1.0. An updated version of the code is available for free at our website. Do I have to know Angular 1? Nope! We don't assume that you've used Angular 1. This book teaches Angular from the ground up. Of course, if you've used Angular 1, we'll point out common ideas (because there are many), but ng-book stands on its own. Is ng-book an upgrade to ng-book 1? No. This is a completely new book and shares no content or code with ng-book 1. Angular 1 and Angular 2+ are two different frameworks and ng-book 1 and ng-book are two different books.

This book makes an original contribution to the discussion about agro-food exporting countries' governmental policy. It presents a historicized and internationally contextualized exploration of the political economy of agrarian change in three Latin American countries: Argentina, Paraguay, and Uruguay. By comparatively examining how these states have acted in a context of global driven market forces and historically formed institutions, the monograph illuminates the differing capacities of state autonomy under the present era of globalized agriculture.

If you want to build cross-platform web applications using the robust Angular web framework, this book is for you. Learning Angular will cover the core concepts of frontend web development using easy-to-follow instructions to help you get up and running with Angular web development in no time.

Over the past twenty years, the knowledge and understanding of wastewater treatment has advanced extensively and moved away from empirically based approaches to a fundamentally-based first principles approach embracing chemistry, microbiology, and physical and bioprocess engineering, often involving experimental laboratory work and techniques. Many of these experimental methods and techniques have matured to the degree that they have been accepted as reliable tools in wastewater treatment research and practice. For sector professionals, especially a new generation of young scientists and engineers entering the wastewater treatment profession, the quantity, complexity and diversity of these new developments can be overwhelming, particularly in developing countries where access to advanced level laboratory courses in wastewater treatment is not readily available. In addition, information on innovative experimental methods is scattered across scientific literature and only partially available in the form of textbooks or guidelines. This book seeks to address these deficiencies. It assembles and integrates the innovative experimental methods developed by research groups and practitioners around the world. Experimental Methods in Wastewater Treatment forms part of the internet-based curriculum in wastewater treatment at UNESCO-IHE and, as such, may also be used together with video records of experimental methods performed and narrated by the authors including guidelines on what to do and what not to do. The book is written for undergraduate and postgraduate students, researchers, laboratory staff, plant operators, consultants, and other sector professionals.

If you want to learn how to build efficient React applications, this is your book. Ideal for web developers and software engineers who understand how JavaScript, CSS, and HTML work in the browser, this updated edition provides best practices and patterns for writing modern React code. No prior knowledge of React or functional JavaScript is necessary. With their learning road map, authors Alex Banks and Eve Porcello show you how to create UIs that can deftly display changes without page reloads on large-scale, data-driven websites. You'll also discover how to work with functional programming and the latest ECMAScript features. Once you learn how to build React components with this hands-on guide, you'll understand just how useful React can be in your organization. Understand key functional programming concepts with JavaScriptLook under the hood to learn how React runs in the browserCreate application presentation layers with React componentsManage data and reduce the time you spend debugging applicationsIncorporate React Hooks to manage state and fetch dataUse a routing solution for single-page application featuresLearn how to structure React applications with

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servers in mind

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LAST UPDATE: 09. June 2021 If you are looking for a comprehensive and pragmatic yet concise and up-to-date React.js feat. Hooks book, the Road to React is for you. What you will learn. In "The Road to React" you will learn about all the fundamentals of React.js with Hooks while building a full-blown React application step by step. While you create the React application, every chapter will introduce you to a new React key feature. However, there is more than only the fundamentals: The book dives into related topics (e.g. React with TypeScript, Testing, Performance Optimizations) and advanced feature implementations like client- and server-side searching. At the end of the book, you will have a fully working deployed React application. Is it up to date? Programming books are usually outdated soon after their release, but since this book is self- published, I can update it as needed whenever a new version of something related to this book gets released. I am a beginner. Is this book for me? Yes. The book starts from zero and takes you through the learning experience step by step. Every chapter builds up on the learnings from the previous chapter. In addition, at the end of every chapter, exercises fortify your lessons learned. If you got stuck in a chapter, you will always find a reference URL to the status quo of the actual code. Core Concepts Pragmatic: Master React while building a complete application step by step. Problems Solving: You need to experience a problem first before solving it. The Why: Readers like how the book answers the Why, not only the How. Table of Contents Fundamentals of React Hello React Requirements Setting up a React Project Meet the React Component React JSX Lists in React Meet another React Component React Component Instantiation ReactDOM React Component Definition (Advanced) Handler Function in JSX React Props React State Callback Handlers in JSX Lifting State in React React Controlled Components Props Handling (Advanced) React Side-Effects React Custom Hooks (Advanced) React Fragments Reusable React Component React Component Composition Imperative React Inline Handler in JSX React Asynchronous Data React Conditional Rendering React Advanced State React Impossible States Data Fetching with React Data Re-Fetching in React Memoized Handler in React (Advanced) Explicit Data Fetching with React Third-Party Libraries in React Async/Await in React (Advanced) Forms in React React's Legacy React Class Components React Class Components: State Imperative React Styling in React CSS in React CSS Modules in React Styled Components in React SVGs in React React Maintenance Performance in React (Advanced) TypeScript in React Unit Testing to Integration Testing React Project Structure Real World React (Advanced) Sorting Reverse Sort Remember Last Searches Paginated Fetch Deploying a React Application Build Process Deploy to Firebase Get up to speed with React, React Native, GraphQL and Apollo for building cross-platform native apps with the help of practical examples Key Features Covers the latest features of React such as Hooks, Suspense, NativeBase, and Apollo in this updated third edition Get to grips with the React architecture for writing easy-to-manage web and mobile applications Understand GraphQL and Apollo for building a scalable backend for your cross-platform apps Book Description React and React Native, Facebook's innovative User Interface (UI) libraries, are designed to help you build robust cross-platform web and mobile applications. This updated third edition is improved and updated to cover the latest version of React. The book particularly focuses on the latest developments in the React ecosystem, such as modern Hook implementations, code splitting using lazy components and Suspense, user interface framework components using Material-UI, and Apollo. In terms of React Native, the book has been updated to version 0.62 and demonstrates how to apply native UI components for your existing mobile apps using NativeBase. You will begin by learning about the essential building blocks of React components. Next, you'll progress to working with higher-level functionalities in application development, before putting this knowledge to use by developing user interface

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components for the web and for native platforms. In the concluding chapters, you'll learn how to bring your application together with a robust data architecture. By the end of this book, you'll be able to build React applications for the web and React Native applications for multiple mobile platforms. What you will learn

- Delve into the React architecture, component properties, state, and context
- Get to grips with React Hooks for handling functions and components
- Implement code splitting in React using lazy components and Suspense
- Build robust user interfaces for mobile and desktop apps using Material-UI
- Write shared components for Android and iOS mobile apps using React Native
- Simplify layout design for React Native apps using NativeBase
- Write GraphQL schemas to power web and mobile apps
- Implement web and mobile components that are driven by Apollo

Who this book is for This book is for any JavaScript developer who wants to start learning how to use Facebook's UI libraries, React and React Native, for mobile and web application development. Although no prior knowledge of React is needed, working knowledge of JavaScript programming will help you understand the concepts covered in the book more effectively.

This is the fourth volume of the successful series *Robot Operating Systems: The Complete Reference*, providing a comprehensive overview of robot operating systems (ROS), which is currently the main development framework for robotics applications, as well as the latest trends and contributed systems. The book is divided into four parts: Part 1 features two papers on navigation, discussing SLAM and path planning. Part 2 focuses on the integration of ROS into quadcopters and their control. Part 3 then discusses two emerging applications for robotics: cloud robotics, and video stabilization. Part 4 presents tools developed for ROS; the first is a practical alternative to the roslaunch system, and the second is related to penetration testing. This book is a valuable resource for ROS users and wanting to learn more about ROS capabilities and features.

*Micro Bionic* is an exciting survey of electronic music and sound art from cultural critic and mixed-media artist Thomas Bey William Bailey. This superior revised edition includes all of the original supplements neglected by the publishers of the first edition, including a full index, bibliography, additional notes / commentary and an updated discography. As the title suggests, the unifying theme of the book is that of musicians and sound artists taking bold leaps forward in spite of (or sometimes because of) their financial, technological, and social restrictions. Some symptoms of this condition include the gigantic discography amassed by the one-man project Merzbow, the drama of silence enacted by onkyo and New Berlin Minimalism, the annihilating noise transmitted from the humble laptop computers of Russell Haswell and Peter Rehberg and much more besides. Although the journey begins in the Industrial 1980s, in order to trace how the innovations of that period have gained greater currency in the present, it surveys a wide array of artists breaking ground in the 21st century with radical attitudes and techniques. A healthy amount of global travel and concentrated listening have combined to make this a sophisticated yet accessible document, unafraid to explore both the transgressive extremes of this culture and the more deftly concealed interstices thereof. Part historical document, part survival manual for the marginalized electronic musician, part sociological investigation, *Micro Bionic* is a number of different things, and as such will likely generate a variety of reactions from inspiration to offense. Numerous exclusive interviews with leading lights of the field were also conducted for this book: William Bennett (Whitehouse), Peter Christopherson (r.i.p., Throbbing Gristle / Coil), Peter Rehberg, John Duncan, Francisco Lopez, Carl Michael von Hausswolff, Bob Ostertag, Zbigniew Karkowski and many others weigh in with a diversity of thoughts and opinions that underscore the incredible diversity to be found within new electronic music itself."

Build modern SPAs by learning the latest and powerful features of Angular 5 and TypeScript 2.x

About This Book The best overview of Angular 5 on the market, this guide gathers together everything there is to know about Angular 5 and groups it into intuitive sections. Learn to build,

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grow and test powerful and scalable mobile and desktop web applications with Angular Explore the latest features of Angular 5 and TypeScript 2.4 by building a complete responsive application from scratch. Deliver seamless web navigation experiences with application routing and state handling common features with ease The author has done all the hard work of fitting everything Angular 5 means for developers, making this book the quickest way to learn Angular 5 from scratch. Who This Book Is For This book is for web developers who want to build the next generation of state-of-the-art mobile and desktop web applications with Angular. This book does not require you to have prior exposure to either Angular 1.x, 2 or 4, although comprehensive knowledge of JavaScript is assumed. What You Will Learn Set up the workspace and the project using webpack and Angular-Cli Explore the features of TypeScript and organize the code in ES6 modules Work with HTTP and Data Services and understand how data can flow in the app Create multiple views and learn how to navigate between them Make the app beautiful by adding Material Design Implement two different types of form handling and its validation Add animation to some standard events such as route change, initialization, data load, and so on Discover how to bulletproof your applications by introducing smart unit testing techniques and debugging tools In Detail The latest version of Angular comes with a lot of new features that help you to make your applications smaller and faster. This book will show you how to set up an Angular project, and you'll build Angular components right from the beginning. Moving on, you'll explore and work with the components to build your app. Next, you'll find out more about TypeScript and see how to use it to build apps in the best way possible. You'll then be introduced to the building blocks - Properties, Events, Directives, and Pipes - and how it can be used to implement and enhance the components. Additionally, you'll be using Angular components to organize your components in a scalable way. Then you'll understand how to get data in your app and add navigation to it. Furthermore, you'll deep dive and w...

Angular 100% Operativo (Ultimo aggiornamento: 5 gg. fa) è un libro pensato per farti diventare subito operativo nell'uso di Angular 7 con TypeScript, perché seguirai passo dopo passo e nei minimi dettagli (209 pagine!), lo sviluppo di un'intera e completa WebAPP, che farà da cornice per capire e memorizzare facilmente i concetti chiave di Angular, come: - le differenze tra Angular e lo sviluppo di siti web classici - la progettazione di componente intelligenti - la navigazione e il cambio di stato - il passaggio di dati in ingresso e uscita tra componenti - il recupero di parametri dall'url di navigazione - la modellazioni di dati - la gestione delle azioni fatte dall'utente - la comunicazione via HTTP con API remote Il tutto con un linguaggio semplice e lineare, adatto anche a chi ha poca esperienza con il mondo della programmazione. Sono tuttavia richieste delle conoscenze medie di JavaScript, TypeScript, HTML, CSS e PHP al fine di seguire al meglio i concetti spiegati nel libro. Parola all'Autore: Caro lettore, ti ringrazio in anticipo per ogni eventuale segnalazione di errori d'ortografia, di sviste o meglio ancora di aggiunte che ti sembra importante avere nel libro. Molte di queste le troverai già presenti (grazie ai commenti dei lettori passati), essendo ormai giunti alla Quinta Edizione, ma sentiti libero di contattarmi per ogni necessità chattando come me all'interno del sito: [www.video-corsi.com](http://www.video-corsi.com) Purtroppo l'impaginazione del codice nel formato kindle spesso non coincide con quella che vedo prima della pubblicazione e questo potrebbe far pensare a degli errori di battitura Se inoltre ti piacciono i VIDEO tutorial, e vorresti approfondire ulteriormente Angular, vienimi a trovare alla WebStartUniversity, collegandoti al link qui sotto: [www.video-corsi.com/websu/](http://www.video-corsi.com/websu/) Buona lettura! ing. Davide Copelli

The efficiency, effectiveness, and transparency of public financial management in Latin America is critical for the supervision of public resources, fiscal stability, and sustainable economic development. In recent years, the countries of Latin America have embraced reforms in public financial management and have made



many important advances; however, many challenges remain. This book brings together the knowledge and experiences of IMF and IDB staff and representatives from 16 governments in the region to document these reforms, and examines the experiences and lessons learned. It is a valuable resource for those looking at issues in public financial management.

From today's vantage point it can be denied that the confidence in the abilities of globalism, mobility, and cosmopolitanism to illuminate cultural signification processes of our time has been severely shaken. In the face of this crisis, a key concept of this globalizing optimism as World Literature has been for the past twenty years necessarily is in the need of a comprehensive revision. World Literature, Cosmopolitanism, Globality: Beyond, Against, Post, Otherwise offers a wide range of contributions approaching the blind spots of the globally oriented Humanities for phenomena that in one way or another have gone beyond the discourses, aesthetics, and political positions of liberal cosmopolitanism and neoliberal globalization. Departing basically (but not exclusively) from different examples of Latin American literatures and cultures in globalized contexts, this volume provides innovative insights into critical readings of World Literature and its related conceptualizations. A timely book that embraces highly innovative perspectives, it will be a mustread for all scholars involved in the field of the global dimensions of literature.

**#1 NEW YORK TIMES BEST SELLER** • In this urgent, authoritative book, Bill Gates sets out a wide-ranging, practical—and accessible—plan for how the world can get to zero greenhouse gas emissions in time to avoid a climate catastrophe. Bill Gates has spent a decade investigating the causes and effects of climate change. With the help of experts in the fields of physics, chemistry, biology, engineering, political science, and finance, he has focused on what must be done in order to stop the planet's slide to certain environmental disaster. In this book, he not only explains why we need to work toward net-zero emissions of greenhouse gases, but also details what we need to do to achieve this profoundly important goal. He gives us a clear-eyed description of the challenges we face. Drawing on his understanding of innovation and what it takes to get new ideas into the market, he describes the areas in which technology is already helping to reduce emissions, where and how the current technology can be made to function more effectively, where breakthrough technologies are needed, and who is working on these essential innovations. Finally, he lays out a concrete, practical plan for achieving the goal of zero emissions—suggesting not only policies that governments should adopt, but what we as individuals can do to keep our government, our employers, and ourselves accountable in this crucial enterprise. As Bill Gates makes clear, achieving zero emissions will not be simple or easy to do, but if we follow the plan he sets out here, it is a goal firmly within our reach.

This book contributes to a deeper understanding of landscape and regional modelling in general, and its broad range of facets with respect to various

landscape parameters. It presents model approaches for a number of ecological and socio-economic landscape indicators, and also describes spatial decision support systems (DSS), frameworks, and model-based tools, which are prerequisites for deriving sustainable decision and solution strategies for the protection of comprehensively functioning landscapes. While it mainly focuses on the latest research findings in regional modelling and DSS in Europe, it also highlights the work of scientists from Russia. The book is intended for landscape modellers, scientists from various fields of landscape research, university teaching staff, and experts in landscape planning and management, landscape conservation and landscape policy.

The objective of this book is to provide the reader with a comprehensive coverage on the Robot Operating Systems (ROS) and latest related systems, which is currently considered as the main development framework for robotics applications. The book includes twenty-seven chapters organized into eight parts. Part 1 presents the basics and foundations of ROS. In Part 2, four chapters deal with navigation, motion and planning. Part 3 provides four examples of service and experimental robots. Part 4 deals with real-world deployment of applications. Part 5 presents signal-processing tools for perception and sensing. Part 6 provides software engineering methodologies to design complex software with ROS. Simulations frameworks are presented in Part 7. Finally, Part 8 presents advanced tools and frameworks for ROS including multi-master extension, network introspection, controllers and cognitive systems. This book will be a valuable companion for ROS users and developers to learn more ROS capabilities and features.

The Global Ocean Observing System (GOOS) is an international programme for a permanent global framework of observations, modelling and analysis of ocean variables that are needed to support operational services around the world. The EuroGOOS strategy has two streams: the first is to improve the quality of marine information in European home waters, and the second is to collaborate with similar organisations in other continents to create a new global ocean observing and modelling system that will provide the open ocean forecasts needed to achieve the best possible performance by local marine information services everywhere. EuroGOOS held its second international conference in The Hague in 1999. Here, the operational services already in place in the EuroGOOS regions were presented and evaluated. In addition, a "Forward Look" was presented, with targets for the next 5-10 years. The proceedings of the first EuroGOOS conference were published by Elsevier in the

/locate/inca/600827EOS Series No. 62 Editors: Stel et al, ISBN 0-444-82892-3. This book provides readers with a snapshot of recent methods for non-stationary vibration analysis of machinery. It covers a broad range of advanced techniques in condition monitoring of machinery, such as mathematical models, signal processing and pattern recognition methods and artificial intelligence methods, and their practical applications to the analysis of nonstationarities. Each chapter,

accepted after a rigorous peer-review process, reports on a selected, original piece of work presented and discussed at the International Conference on Condition Monitoring of Machinery in Non-Stationary Operations, CMMNO'2016, held on September 12 – 16, 2016, in Gliwice, Poland. The contributions cover advances in both theory and practice in a variety of subfields, such as: smart materials and structures; fluid-structure interaction; structural acoustics as well as computational vibro-acoustics and numerical methods. Further topics include: engines control, noise identification, robust design, flow-induced vibration and many others. By presenting state-of-the-art in predictive maintenance solutions and discussing important industrial issues the book offers a valuable resource to both academics and professionals and is expected to facilitate communication and collaboration between the two groups.

Welcome to this one-stop-shop for learning Angular 9. Pro Angular 9 is the most concise and comprehensive guide available, giving you the knowledge you need to take full advantage of this popular framework for building your own dynamic JavaScript applications. The fourth edition of this popular guide explains how to get the most from Angular 9, starting with an in-depth overview of the MVC pattern and presenting the range of benefits it can offer. From there, you will begin learning how to use Angular in your projects, starting with the nuts-and-bolts concepts, and progressing on to more advanced and sophisticated features. Each topic in this full-color book provides you with precisely enough learning and detail to be effective. In true Adam Freeman style, the most important features are given full court press treatment, while also addressing common problems and how to avoid them. What You Will Learn: Gain a solid architectural understanding of the MVC Pattern Create rich and dynamic web app clients using Angular 9 Use the ng tools to create and build an Angular project Extend and customize Angular Acquire skills to unit test your Angular projects Who This Book Is For: This book is for web developers who want to create rich client-side applications. Foundational knowledge of HTML and JavaScript is recommended. "Adam's books provide a finely tuned blend of architectural overview, technical depth, and experience-born wisdom. His clear, concise writing style, coupled with project driven real world examples, make me comfortable recommending his books to a broad audience, ranging from developers working with a technology for the first time to seasoned professionals who need to learn a new skill quickly." Keith Dublin, Solution Principal, Slalom Consulting "Adam's books are the print version of a chat bot. His investment in learning how developers learn pays off in dividends, making this one of the most comprehensive resources available. Novices and experienced professionals alike will gain knowledge from the accessible and insightful material." Mark Donile, Software Engineer, MS CS

This book addresses the emerging trend of smart grids in power systems. It discusses the advent of smart grids and selected technical implications; further, by combining the perspectives of researchers from Europe and South America, the book captures the status quo of and approaches to smart grids in a wide range of countries. It describes the basic concepts, enabling readers to understand the theoretical aspects behind smart grid formation, while also examining current challenges and philosophical discussions. Like the industrial revolution and the birth of the Internet, smart grids are

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certain to change the way people use electricity. In this regard, a new term – the “prosumer” – is used to describe consumers who may sometimes also be energy producers. This is particularly appealing if we bear in mind that most of the distributed power generation in smart grids does not involve carbon emissions. At first glance, the option of generating their own power could move consumers to leave their current energy provider. Yet the authors argue that doing so is not a wise choice: utilities will play a central role in this new scenario and should not be ignored.

This joint initiative by the Inter-American Development Bank (IDB) and the OECD seeks to encourage the expansion of broadband networks and services in the region, supporting a coherent and cross-sectorial approach, to maximise their benefits for economic and social development.

This full-stack guide will help you become fluent in both frontend and backend web development by combining the impressive capabilities of ASP.NET Core 3.1 and Angular 9 from project setup right through the deployment. Furthermore, you will learn to add capabilities like security, testability, and scalability to your apps using expert techniques.

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