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Elm brings the safety and stability of functional programing to front-end development, making it one of the most popular new languages. Elm's functional nature and static typing means that run-time errors are nearly impossible, and it compiles to JavaScript for easy web deployment. This book helps you take advantage of this new language in your web site development. Learn how the Elm Architecture will help you create fast applications. Discover how to integrate Elm with JavaScript so you can update

legacy applications. See how Elm tooling makes deployment quicker and easier. Functional programming offers safer applications with decreased runtime errors, but functional solutions that are type safe and easy to use have been hard to find, until the Elm language. Elm has the benefits of functional languages while compiling to JavaScript. This book provides a complete tutorial for the Elm language, starting with a simple static application that introduces Elm syntax, modules, and the virtual DOM, to exploring how to create a UI using functions. See how Elm handles the issues of state in functional languages. You'll continue to build up larger applications involving HTTP requests for communication. Integrate your Elm applications with JavaScript so you can update legacy applications or take advantage of JavaScript resources. Elm also provides built-in tooling to alleviate the tooling creep that's so common in JavaScript. This book covers Elm's deployment and testing tools that ease development confusion. Dive into advanced concepts including creating single-page applications, and creating performance improvements. Elm expert Jeremy Fairbank brings his years of web development experience to teaching how to use Elm for front-end development. Your web UIs will be faster, safer, and easier to develop with Elm and this tutorial. What You Need: You will need the latest version of Elm, 0.19, along with a browser to run the examples in this book. Provides information on writing a driver in Linux, covering such topics as character devices, network interfaces, driver debugging, concurrency, and interrupts. This book details the development techniques needed to work within the DotNetNuke

framework. It discusses the available methods to extend the framework, as well as the situations and rules governing when each respective extension model should be used. Additionally, the book stresses leveraging the framework in as many areas as possible, and ultimately using the framework to the advantage of the developer. Samples in the book are provided in both C# and Visual Basic (VB), and provides some excellent new features that are supported, starting with DotNetNuke 5.0. Provides information on writing scalable network applications using the JavaScript-based platform. The programming language Fortran dates back to 1957 when a team of IBM engineers released the first Fortran Compiler. During the past 60 years, the language had been revised and updated several times to incorporate more features to enable writing clean and structured computer programs. The present version is Fortran 2018. Since the dawn of the computer era, there had been a constant demand for a "larger" and "faster" machine. To increase the speed there are three hurdles. The density of the active components on a VLSI chip cannot be increased indefinitely and with the increase of the density heat dissipation becomes a major problem. Finally, the speed of any signal cannot exceed the velocity of the light. However, by using several inexpensive processors in parallel coupled with specialized software and hardware, programmers can achieve computing speed similar to a supercomputer. This book can be used to learn the modern Fortran from the beginning and the technique of developing parallel programs using Fortran. It is for anyone who wants to learn Fortran. Knowledge beyond high school mathematics is not required.

There is not another book on the market yet which deals with Fortran 2018 as well as parallel programming. FEATURES Descriptions of majority of Fortran 2018 instructions Numerical Model String with Variable Length IEEE Arithmetic and Exceptions Dynamic Memory Management Pointers Bit handling C-Fortran Interoperability Object Oriented Programming Parallel Programming using Coarray Parallel Programming using OpenMP Parallel Programming using Message Passing Interface (MPI) THE AUTHOR Dr Subrata Ray, is a retired Professor, Indian Association for the Cultivation of Science, Kolkata.

*What is understanding and how does it differ from knowledge? How can we determine the big ideas worth understanding? Why is understanding an important teaching goal, and how do we know when students have attained it? How can we create a rigorous and engaging curriculum that focuses on understanding and leads to improved student performance in today's high-stakes, standards-based environment? Authors Grant Wiggins and Jay McTighe answer these and many other questions in this second edition of *Understanding by Design*. Drawing on feedback from thousands of educators around the world who have used the UbD framework since its introduction in 1998, the authors have greatly revised and expanded their original work to guide educators across the K-16 spectrum in the design of curriculum, assessment, and instruction. With an improved UbD Template at its core, the book explains the rationale of backward design and explores in greater depth the meaning of such key ideas as essential questions and transfer tasks. Readers will learn why the familiar coverage- and activity-based approaches*

to curriculum design fall short, and how a focus on the six facets of understanding can enrich student learning. With an expanded array of practical strategies, tools, and examples from all subject areas, the book demonstrates how the research-based principles of *Understanding by Design* apply to district frameworks as well as to individual units of curriculum. Combining provocative ideas, thoughtful analysis, and tested approaches, this new edition of *Understanding by Design* offers teacher-designers a clear path to the creation of curriculum that ensures better learning and a more stimulating experience for students and teachers alike.

Estimates indicate that as many as 1 in 4 Americans will experience a mental health problem or will misuse alcohol or drugs in their lifetimes. These disorders are among the most highly stigmatized health conditions in the United States, and they remain barriers to full participation in society in areas as basic as education, housing, and employment. Improving the lives of people with mental health and substance abuse disorders has been a priority in the United States for more than 50 years. The Community Mental Health Act of 1963 is considered a major turning point in America's efforts to improve behavioral healthcare. It ushered in an era of optimism and hope and laid the groundwork for the consumer movement and new models of recovery. The consumer movement gave voice to people with mental and substance use disorders and brought their perspectives and experience into national discussions about mental health. However over the same 50-year period, positive change in American public attitudes and beliefs about mental

and substance use disorders has lagged behind these advances. Stigma is a complex social phenomenon based on a relationship between an attribute and a stereotype that assigns undesirable labels, qualities, and behaviors to a person with that attribute. Labeled individuals are then socially devalued, which leads to inequality and discrimination. This report contributes to national efforts to understand and change attitudes, beliefs and behaviors that can lead to stigma and discrimination. Changing stigma in a lasting way will require coordinated efforts, which are based on the best possible evidence, supported at the national level with multiyear funding, and planned and implemented by an effective coalition of representative stakeholders. *Ending Discrimination Against People with Mental and Substance Use Disorders: The Evidence for Stigma Change* explores stigma and discrimination faced by individuals with mental or substance use disorders and recommends effective strategies for reducing stigma and encouraging people to seek treatment and other supportive services. It offers a set of conclusions and recommendations about successful stigma change strategies and the research needed to inform and evaluate these efforts in the United States. This support and assessment pack accompanies a text which covers science concepts for Key Stage 3. The pack contains: starter exercises, to help determine whether pupils have grasped Key Stage 2 knowledge; support sheets, to aid the least able pupils; further work and supplementary information to back up the pupil books; end-of-module tests, differentiated throughout and in a SAT format; and

answers to the questions contained in the pupil books and the end-of-module tests. The 5th International Symposium on High Performance Computing (ISHPC-V) was held in Odaiba, Tokyo, Japan, October 20-22, 2003. The symposium was thoughtfully planned, organized, and supported by the ISHPC Organizing Committee and its collaborating organizations. The ISHPC-V program included two keynote speeches, several invited talks, two panel discussions, and technical sessions covering theoretical and applied research topics in high-performance computing and representing both academia and industry. One of the regular sessions highlighted the research results of the ITBL project (IT-based research laboratory, <http://www.itbl.riken.go.jp/>). ITBL is a Japanese national project started in 2001 with the objective of realizing a virtual joint research environment using information technology. ITBL aims to connect 100 supercomputers located in main Japanese scientific research laboratories via high-speed networks. A total of 58 technical contributions from 11 countries were submitted to ISHPC-V. Each paper received at least three peer reviews. After a thorough evaluation process, the program committee selected 14 regular (12-page) papers for presentation at the symposium. In addition, several other papers with favorable reviews were recommended for a poster session presentation. They are also included in the proceedings as short (8-page) papers. The program committee gave a distinguished paper award and a best student paper award to two of the regular papers. The distinguished paper award was given for "Code and Data Transformations for Improving Shared

Cache Performance on SMT Processors" by Dimitrios S. Nikolopoulos. The best student paper award was given for "Improving Memory Latency Aware Fetch Policies for SMT Processors" by Francisco J. Cazorla.

Consider the problem of a robot (algorithm, learning mechanism) moving along the real line attempting to locate a particular point ? . To assist the mechanism, we assume that it can communicate with an Environment ("Oracle") which guides it with information regarding the direction in which it should go. If the Environment is deterministic the problem is the "Deterministic Point - cation Problem" which has been studied rather thoroughly [1]. In its pioneering version [1] the problem was presented in the setting that the Environment could charge the robot a cost which was proportional to the distance it was from the point sought for. The question of having multiple communicating robots locate a point on the line has also been studied [1, 2]. In the stochastic version of this problem, we consider the scenario when the learning mechanism attempts to locate a point in an interval with stochastic (i. e. , possibly erroneous) instead of deterministic responses from the environment. Thus when it should really be moving to the "right" it may be advised to move to the "left" and vice versa. Apart from the problem being of importance in its own right, the stochastic pointlocationproblemalsohas potentialapplications insolvingoptimization problems. Inmanyoptimizationsolutions-forexampleinimageprocessing,p- tern recognition and neural computing [5, 9, 11, 12, 14, 16, 19], the algorithm worksits wayfromits currentsolutionto the optimal solutionbasedoninfor-

tion that it currently has. A crucial question is one of determining the parameter which the optimization algorithm should use. If you're just learning how to program, Julia is an excellent JIT-compiled, dynamically typed language with a clean syntax. This hands-on guide uses Julia 1.0 to walk you through programming one step at a time, beginning with basic programming concepts before moving on to more advanced capabilities, such as creating new types and multiple dispatch. Designed from the beginning for high performance, Julia is a general-purpose language ideal for not only numerical analysis and computational science but also web programming and scripting. Through exercises in each chapter, you'll try out programming concepts as you learn them. Think Julia is perfect for students at the high school or college level as well as self-learners and professionals who need to learn programming basics. Start with the basics, including language syntax and semantics Get a clear definition of each programming concept Learn about values, variables, statements, functions, and data structures in a logical progression Discover how to work with files and databases Understand types, methods, and multiple dispatch Use debugging techniques to fix syntax, runtime, and semantic errors Explore interface design and data structures through case studies "Eureka Math is a comprehensive, content-rich PreK-12 curriculum that follows the focus and coherence of the Common Core State Standards in Mathematics (CCSSM) and carefully sequences the mathematical progressions into expertly crafted instructional modules. The companion Study Guides to

Eureka Math gather the key components of the curriculum for each grade into a single location, unpacking the standards in detail so that both users and non-users of Eureka Math can benefit equally from the content presented. The Eureka Math Curriculum Study Guide, Grade PK provides an overview of all of the Pre-Kindergarten modules, including Counting to 5; Shapes; Counting to 10; Comparison of Length, Weight, Capacity, and Numbers to 5; and Addition and Subtraction Stories and Counting to 20" -- With Learning JavaScript Design Patterns, you'll learn how to write beautiful, structured, and maintainable JavaScript by applying classical and modern design patterns to the language. If you want to keep your code efficient, more manageable, and up-to-date with the latest best practices, this book is for you. Explore many popular design patterns, including Modules, Observers, Facades, and Mediators. Learn how modern architectural patterns—such as MVC, MVP, and MVVM—are useful from the perspective of a modern web application developer. This book also walks experienced JavaScript developers through modern module formats, how to namespace code effectively, and other essential topics. Learn the structure of design patterns and how they are written Understand different pattern categories, including creational, structural, and behavioral Walk through more than 20 classical and modern design patterns in JavaScript Use several options for writing modular code—including the Module pattern, Asynchronous Module Definition (AMD), and CommonJS Discover design patterns implemented in the jQuery library Learn popular design patterns for writing

maintainable jQuery plug-ins "This book should be in every JavaScript developer's hands. It's the go-to book on JavaScript patterns that will be read and referenced many times in the future."—Andrée Hansson, Lead Front-End Developer, presis! Master the Shiny web framework—and take your R skills to a whole new level. By letting you move beyond static reports, Shiny helps you create fully interactive web apps for data analyses. Users will be able to jump between datasets, explore different subsets or facets of the data, run models with parameter values of their choosing, customize visualizations, and much more. Hadley Wickham from RStudio shows data scientists, data analysts, statisticians, and scientific researchers with no knowledge of HTML, CSS, or JavaScript how to create rich web apps from R. This in-depth guide provides a learning path that you can follow with confidence, as you go from a Shiny beginner to an expert developer who can write large, complex apps that are maintainable and performant. Get started: Discover how the major pieces of a Shiny app fit together Put Shiny in action: Explore Shiny functionality with a focus on code samples, example apps, and useful techniques Master reactivity: Go deep into the theory and practice of reactive programming and examine reactive graph components Apply best practices: Examine useful techniques for making your Shiny apps work well in production In the history of mathematics there are many situations in which calculations were performed incorrectly for important practical applications. Let us look at some examples, the history of computing the number π began in Egypt and Babylon about 2000 years BC,

since then many mathematicians have calculated π (e. g. , Archimedes, Ptolemy, Vi`ete, etc.). The first formula for computing decimal digits of π was discovered by J. Machin (in 1706), who was the first to correctly compute 100 digits of π . Then many people used his method, e. g. , W. Shanks calculated π with 707 digits (within 15 years), although due to mistakes only the first 527 were correct. For the next examples, we can mention the history of computing the fine-structure constant α (that was first discovered by A. Sommerfeld), and the mathematical tables, exact solutions, and formulas, published in many mathematical textbooks, were not verified rigorously [25]. These errors could have a large effect on results obtained by engineers. But sometimes, the solution of such problems required such technology that was not available at that time. In modern mathematics there exist computers that can perform various mathematical operations for which humans are incapable. Therefore the computers can be used to verify the results obtained by humans, to discover new results, to prove the results that a human can obtain without any technology. With respect to our example of computing π , we can mention that recently (in 2002) Y. Kanada, Y. Ushiro, H. Kuroda, and M. Build and extend flexible Drupal sites and applications with this up-to-date, expert guide to Drupal 9 module development Key Features Explore the essential Drupal 9 APIs for module development Learn how to implement data modeling, caching, architecture, and much more in your Drupal applications Discover what's new in the latest Drupal core releases Book Description With its latest release, Drupal 9, the popular open source CMS

platform has been updated with new functionalities for building complex Drupal apps with ease. This third edition of the Drupal Module Development guide covers these new Drupal features, helping you to stay on top of code deprecations and the changing architecture with every release. The book starts by introducing you to the Drupal 9 architecture and its subsystems before showing you how to create your first module with basic functionality. You'll explore the Drupal logging and mailing systems, learn how to output data using the theme layer, and work with menus and links programmatically. Once you've understood the different kinds of data storage, this Drupal guide will demonstrate how to create custom entities and field types and leverage the Database API for lower-level database queries. You'll also learn how to introduce JavaScript into your module, work with various file systems, and ensure that your code works on multilingual sites. Finally, you'll work with Views, create automated tests for your functionality, and write secure code. By the end of the book, you'll have learned how to develop custom modules that can provide solutions to complex business problems, and who knows, maybe you'll even contribute to the Drupal community! What you will learn

Develop custom Drupal 9 modules for your applications
Master different Drupal 9 subsystems and APIs
Model, store, manipulate, and process data for effective data management
Display data and content in a clean and secure way using the theme system
Test your business logic to prevent regression
Stay ahead of the curve and write PHP code by implementing best practices
Who this book is for
If you are a Drupal developer looking to learn

Drupal 9 to write modules for your sites, this book is for you. Drupal site builders and PHP developers with basic object-oriented programming skills will also find this book helpful. Although not necessary, some Symfony experience will help with understanding concepts easily. The groundbreaking novel that propelled its author to literary stardom: told in a continuous monologue from patient to psychoanalyst, Philip Roth's masterpiece draws us into the turbulent mind of one lust-ridden young Jewish bachelor named Alexander Portnoy. Portnoy's Complaint n. [after Alexander Portnoy (1933-)] A disorder in which strongly-felt ethical and altruistic impulses are perpetually warring with extreme sexual longings, often of a perverse nature. Spielvogel says: 'Acts of exhibitionism, voyeurism, fetishism, auto-eroticism and oral coitus are plentiful; as a consequence of the patient's "morality," however, neither fantasy nor act issues in genuine sexual gratification, but rather in overriding feelings of shame and the dread of retribution, particularly in the form of castration.' (Spielvogel, O. "The Puzzled Penis," Internationale Zeitschrift für Psychoanalyse, Vol. XXIV, p. 909.) It is believed by Spielvogel that many of the symptoms can be traced to the bonds obtaining in the mother-child relationship. When Practical Unix Security was first published more than a decade ago, it became an instant classic. Crammed with information about host security, it saved many a Unix system administrator from disaster. The second edition added much-needed Internet security coverage and doubled the size of the original volume. The third edition is a

comprehensive update of this very popular book - a companion for the Unix/Linux system administrator who needs to secure his or her organization's system, networks, and web presence in an increasingly hostile world. Focusing on the four most popular Unix variants today--Solaris, Mac OS X, Linux, and FreeBSD--this book contains new information on PAM (Pluggable Authentication Modules), LDAP, SMB/Samba, anti-theft technologies, embedded systems, wireless and laptop issues, forensics, intrusion detection, chroot jails, telephone scanners and firewalls, virtual and cryptographic filesystems, WebNFS, kernel security levels, outsourcing, legal issues, new Internet protocols and cryptographic algorithms, and much more. Practical Unix & Internet Security consists of six parts: Computer security basics: introduction to security problems and solutions, Unix history and lineage, and the importance of security policies as a basic element of system security. Security building blocks: fundamentals of Unix passwords, users, groups, the Unix filesystem, cryptography, physical security, and personnel security. Network security: a detailed look at modem and dialup security, TCP/IP, securing individual network services, Sun's RPC, various host and network authentication systems (e.g., NIS, NIS+, and Kerberos), NFS and other filesystems, and the importance of secure programming. Secure operations: keeping up to date in today's changing security world, backups, defending against attacks, performing integrity management, and auditing. Handling security incidents: discovering a break-in, dealing with programmed threats and denial of

service attacks, and legal aspects of computer security. Appendixes: a comprehensive security checklist and a detailed bibliography of paper and electronic references for further reading and research. Packed with 1000 pages of helpful text, scripts, checklists, tips, and warnings, this third edition remains the definitive reference for Unix administrators and anyone who cares about protecting their systems and data from today's threats. This volume provides a comprehensive introduction to module theory and the related part of ring theory, including original results as well as the most recent work. It is a useful and stimulating study for those new to the subject as well as for researchers and serves as a reference volume. Starting from a basic understanding of linear algebra, the theory is presented and accompanied by complete proofs. For a module M , the smallest Grothendieck category containing it is denoted by $\mathcal{O}[M]$ and module theory is developed in this category. Developing the techniques in $\mathcal{O}[M]$ is no more complicated than in full module categories and the higher generality yields significant advantages: for example, module theory may be developed for rings without units and also for non-associative rings. Numerous exercises are included in this volume to give further insight into the topics covered and to draw attention to related results in the literature. This is an utterly original and completely beguiling prose novel about a boy who has to write a poem, and then another, and then even more. Soon the little boy is writing about all sorts of things he has not really come to terms with, and astounding things start to happen. CD-ROM contains:

programming examples from the book and a demo of the PythonWorks IDE. Main features: i) A different approach for teaching Quantum Mechanics encompassing old quantum mechanics, matrix mechanics and wave mechanics in a historical perspective which helps to consolidate most important concepts of Quantum Mechanics; ii) Original information from the most important papers of Quantum Mechanics; iii) Derivation of all important equations of Quantum Mechanics, for example, Heisenberg's uncertainty principle, de Broglie's wave-particle duality, Schrödinger's wave equation, etc., showing their interrelations through Dirac's equations and other applications of matrix and wave mechanics; iv) Comprehensive mathematical support for the understanding of Quantum Mechanics; derivation of all equations make reading easier; v) The illustrations of the book cover examples, exercises and do-it-yourself activities; vi) Fundamentals of Fortran and numerical calculation along with the source codes for numerical solutions of several mathematical and quantum problems. All source codes are in the author's site:

(<https://www.fortrancodes.com/>); vii) Chapters devoted to linear algebra and differential equations applied to quantum mechanics and their numerical solutions; viii) Complete solution for the one-electron and two-electron problems using Schrödinger's time independent equation along with their source codes. This fast-moving tutorial introduces you to OCaml, an industrial-strength programming language designed for expressiveness, safety, and speed. Through the book's many examples, you'll quickly learn how OCaml stands out as a tool

for writing fast, succinct, and readable systems code. Real World OCaml takes you through the concepts of the language at a brisk pace, and then helps you explore the tools and techniques that make OCaml an effective and practical tool. In the book's third section, you'll delve deep into the details of the compiler toolchain and OCaml's simple and efficient runtime system. Learn the foundations of the language, such as higher-order functions, algebraic data types, and modules Explore advanced features such as functors, first-class modules, and objects Leverage Core, a comprehensive general-purpose standard library for OCaml Design effective and reusable libraries, making the most of OCaml's approach to abstraction and modularity Tackle practical programming problems from command-line parsing to asynchronous network programming Examine profiling and interactive debugging techniques with tools such as GNU gdb

New Horizons Science 5-16 is a complete science course designed to meet the demands of the national curriculum for science, covering key stages 1 to 4. The Key stage 3 end of module test pack provides ample material to assess pupils at key stage 3 across each statement of attainment and the entire programme of study. Each module test is tiered to give two papers; the first covering levels 3-5 and the second covering levels 5-7. Each question is flagged with its appropriate statement of attainment and full answer sheets are provided. The Key stage 3 end of module tests are designed to be used in conjunction with the New Horizons Key stage 3 pupil's books 1, 2, and 3. The appropriate tests can be used to assess pupils as they complete each module in the pupil's books. The tests can also

be used independently to provide comprehensive assessment of national curriculum science at key stage 3. The "extensions" of rings and modules have yet to be explored in detail in a research monograph. This book presents state of the art research and also stimulating new and further research. Broken into three parts, Part I begins with basic notions, terminology, definitions and a description of the classes of rings and modules. Part II considers the transference of conditions between a base ring or module and its extensions. And Part III utilizes the concept of a minimal essential extension with respect to a specific class (a hull). Mathematical interdisciplinary applications appear throughout. Major applications of the ring and module theory to Functional Analysis, especially C^* -algebras, appear in Part III, make this book of interest to Algebra and Functional Analysis researchers. Notes and exercises at the end of every chapter, and open problems at the end of all three parts, lend this as an ideal textbook for graduate or advanced undergraduate students. The most beautiful fish in the entire ocean discovers the real value of personal beauty and friendship. This updated edition introduces the important aspects of the language and explains the .NET framework. The alphabetical reference covers the functions, statements, directives, objects, and object members that make up the VB .NET language. Eureka Math A Story of Units Eureka Math is based on the theory that mathematical knowledge is conveyed most clearly and effectively when it is taught in a sequence that follows the "story" of mathematics itself. In A Story of Units, our elementary

curriculum, this sequencing has been joined with methods of instruction that have been proven to work, in this nation and abroad. These methods drive student understanding beyond process to deep mastery of mathematical concepts. The goal of Eureka Math is to produce students who are not merely literate, but fluent, in mathematics. This teacher edition is a companion to Eureka Math online and EngageNY.

Sequence of Grade 5 Modules
Module 1: Place Value and Decimal Fractions
Module 2: Multi-Digit Whole Number and Decimal Fraction Operations
Module 3: Addition and Subtraction of Fractions
Module 4: Multiplication and Division of Fractions and Decimal Fractions
Module 5: Addition and Multiplication with Volume and Area
Module 6: Problem Solving with the Coordinate Plane

This book constitutes the proceedings of the 5th European Software Engineering Conference, ESEC '95, held in Sitges near Barcelona, Spain, in September 1995. The ESEC conferences are the premier European platform for the discussion of academic research and industrial use of software engineering technology. The 29 revised full papers were carefully selected from more than 150 submissions and address all current aspects of relevance. Among the topics covered are business process (re-)engineering, real-time, software metrics, concurrency, version and configuration management, formal methods, design process, program analysis, software quality, and object-oriented software development. This book is intended as a textbook providing a deliberately simple introduction to finite element methods in a way that should be readily understandable to engineers, both students and practising professionals. Only the very

simplest elements are considered, mainly two dimensional three-noded "constant strain triangles", with simple linear variation of the relevant variables. Chapters of the book deal with structural problems (beams), classification of a broad range of engineering into harmonic and biharmonic types, finite element analysis of harmonic problems, and finite element analysis of biharmonic problems (plane stress and plane strain). Full FORTRAN programs are listed and explained in detail, and a range of practical problems solved in the text. Despite being somewhat unfashionable for general programming purposes, the FORTRAN language remains very widely used in engineering. The programs listed, which were originally developed for use on mainframe computers, have been thoroughly updated for use on desktops and laptops. Unlike the first edition, the new edition has problems (with solutions) at the end of each chapter. Electronic copies of all the computer programs displayed in the book can be downloaded at: http://www.worldscientific.com/doi/suppl/10.1142/p847/suppl_file/p847_program.zip. This book constitutes the refereed proceedings of the 6th IFIP WG 5.5/SOCOLNET Doctoral Conference on Computing, Electrical and Industrial Systems, DoCEIS 2015, held in Costa de Caparica, Portugal, in April 2015. The 54 revised full papers were carefully reviewed and selected from 119 submissions. The papers present selected results produced in engineering doctoral programs and focus on development and application of cloud-based engineering systems. Research results and ongoing work are presented, illustrated and discussed in the following areas: collaborative networks; cloud-based

manufacturing; reconfigurable manufacturing; distributed computing and embedded systems; perception and signal processing; healthcare; smart monitoring systems; and renewable energy and energy-related management, decision support, simulation and power conversion. The New York Times bestselling work of undercover reportage from our sharpest and most original social critic, with a new foreword by Matthew Desmond, author of *Evicted* Millions of Americans work full time, year round, for poverty-level wages. In 1998, Barbara Ehrenreich decided to join them. She was inspired in part by the rhetoric surrounding welfare reform, which promised that a job—any job—can be the ticket to a better life. But how does anyone survive, let alone prosper, on \$6 an hour? To find out, Ehrenreich left her home, took the cheapest lodgings she could find, and accepted whatever jobs she was offered. Moving from Florida to Maine to Minnesota, she worked as a waitress, a hotel maid, a cleaning woman, a nursing-home aide, and a Wal-Mart sales clerk. She lived in trailer parks and crumbling residential motels. Very quickly, she discovered that no job is truly "unskilled," that even the lowliest occupations require exhausting mental and muscular effort. She also learned that one job is not enough; you need at least two if you int to live indoors. *Nickel and Dimed* reveals low-rent America in all its tenacity, anxiety, and surprising generosity—a land of Big Boxes, fast food, and a thousand desperate stratagems for survival. Read it for the smoldering clarity of Ehrenreich's perspective and for a rare view of how "prosperity" looks from the bottom. And now, in a new foreword, Matthew Desmond, author of

Evicted: Poverty and Profit in the American City, explains why, twenty years on in America, Nickel and Dimed is more relevant than ever.

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