

Dut Architecture Entry Test For 2014 Students

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Assessing and Responding to the Growth of Computer Science Undergraduate Enrollments

National Academies of Sciences, Engineering, and Medicine 2018-04-28

The field of computer science (CS) is currently experiencing a surge in undergraduate degree production and course enrollments, which is straining program resources at many institutions and causing concern among faculty and administrators about how best to respond to the rapidly growing demand. There is also significant interest about what this growth will mean for the future of CS programs, the role of computer science in academic institutions, the field as a whole, and U.S. society more broadly. *Assessing and Responding to the Growth of Computer Science Undergraduate Enrollments* seeks to provide a better understanding of the current trends in computing enrollments in the context of past trends. It examines drivers of the current enrollment surge, relationships between the surge and current and potential gains in diversity in the field, and the potential impacts of responses to the increased demand for computing in higher education, and it considers the likely effects of those responses on students, faculty, and institutions. This report provides recommendations for what institutions of higher education, government agencies, and the private sector can do to respond to the surge and plan for a strong and sustainable future for the

field of CS in general, the health of the institutions of higher education, and the prosperity of the nation.

Fundamentals of IP and SoC Security - Swarup Bhunia 2017-01-24

This book is about security in embedded systems and it provides an authoritative reference to all aspects of security in system-on-chip (SoC) designs. The authors discuss issues ranging from security requirements in SoC designs, definition of architectures and design choices to enforce and validate security policies, and trade-offs and conflicts involving security, functionality, and debug requirements. Coverage also includes case studies from the "trenches" of current industrial practice in design, implementation, and validation of security-critical embedded systems. Provides an authoritative reference and summary of the current state-of-the-art in security for embedded systems, hardware IPs and SoC designs; Takes a "cross-cutting" view of security that interacts with different design and validation components such as architecture, implementation, verification, and debug, each enforcing unique trade-offs; Includes high-level overview, detailed analysis on implementation, and relevant case studies on design/verification/debug issues related to IP/SoC security.

Encyclopedia of Cloud Computing - San Murugesan 2016-05-09

The Encyclopedia of Cloud Computing provides IT professionals, educators, researchers and students with a compendium of cloud

computing knowledge. Authored by a spectrum of subject matter experts in industry and academia, this unique publication, in a single volume, covers a wide range of cloud computing topics, including technological trends and developments, research opportunities, best practices, standards, and cloud adoption. Providing multiple perspectives, it also addresses questions that stakeholders might have in the context of development, operation, management, and use of clouds. Furthermore, it examines cloud computing's impact now and in the future. The encyclopedia presents 56 chapters logically organized into 10 sections. Each chapter covers a major topic/area with cross-references to other chapters and contains tables, illustrations, side-bars as appropriate. Furthermore, each chapter presents its summary at the beginning and backend material, references and additional resources for further information.

EMOOCs 2021 - Julien Jacqmin 2021

From June 22 to June 24, 2021, Hasso Plattner Institute, Potsdam, hosted the seventh European MOOC Stakeholder Summit (EMOOCs 2021) together with the eighth ACM Learning@Scale Conference. Due to the COVID-19 situation, the conference was held fully online. The boost in digital education worldwide as a result of the pandemic was also one of the main topics of this year's EMOOCs. All institutions of learning have been forced to transform and redesign their educational methods, moving from traditional models to hybrid or completely online models at scale. The learnings, derived from practical experience and research, have been explored in EMOOCs 2021 in six tracks and additional workshops, covering various aspects of this field. In this publication, we present papers from the conference's Experience Track, the Policy Track, the Business Track, the International Track, and the Workshops.

Enterprise Network Testing - Andy Sholomon 2011-04-14

Enterprise Network Testing Testing Throughout the Network Lifecycle to Maximize Availability and Performance Andy Sholomon, CCIE® No. 15179 Tom Kunath, CCIE No. 1679 The complete guide to using testing to reduce risk and downtime in advanced enterprise networks Testing has become crucial to meeting enterprise expectations of near-zero network

downtime. Enterprise Network Testing is the first comprehensive guide to all facets of enterprise network testing. Cisco enterprise consultants Andy Sholomon and Tom Kunath offer a complete blueprint and best-practice methodologies for testing any new network system, product, solution, or advanced technology. Sholomon and Kunath begin by explaining why it is important to test and how network professionals can leverage structured system testing to meet specific business goals. Then, drawing on their extensive experience with enterprise clients, they present several detailed case studies. Through real-world examples, you learn how to test architectural “proofs of concept,” specific network features, network readiness for use, migration processes, security, and more. Enterprise Network Testing contains easy-to-adapt reference test plans for branches, WANs/MANs, data centers, and campuses. The authors also offer specific guidance on testing many key network technologies, including MPLS/VPN, QoS, VoIP, video, IPsec VPNs, advanced routing (OSPF, EIGRP, BGP), and Data Center Fabrics. § Understand why, when, and how you should test your network § Use testing to discover critical network design flaws § Incorporate structured systems testing into enterprise architecture strategy § Utilize testing to improve decision-making throughout the network lifecycle § Develop an effective testing organization and lab facility § Choose and use test services providers § Scope, plan, and manage network test assignments § nLeverage the best commercial, free, and IOS test tools § Successfully execute test plans, including crucial low-level details § Minimize the equipment required to test large-scale networks § Identify gaps in network readiness § Validate and refine device configurations § Certify new hardware, operating systems, and software features § Test data center performance and scalability § Leverage test labs for hands-on technology training This book is part of the Networking Technology Series from Cisco Press®, which offers networking professionals valuable information for constructing efficient networks, understanding new technologies, and building successful careers.

Towards a Model Apprenticeship Framework - Erica Smith 2013

Radiation Tolerant Electronics - Paul Leroux 2019-08-26

Research on radiation-tolerant electronics has increased rapidly over the past few years, resulting in many interesting approaches to modeling radiation effects and designing radiation-hardened integrated circuits and embedded systems. This research is strongly driven by the growing need for radiation-hardened electronics for space applications, high-energy physics experiments such as those on the Large Hadron Collider at CERN, and many terrestrial nuclear applications including nuclear energy and nuclear safety. With the progressive scaling of integrated circuit technologies and the growing complexity of electronic systems, their susceptibility to ionizing radiation has raised many exciting challenges, which are expected to drive research in the coming decade. In this book we highlight recent breakthroughs in the study of radiation effects in advanced semiconductor devices, as well as in high-performance analog, mixed signal, RF, and digital integrated circuits. We also focus on advances in embedded radiation hardening in both FPGA and microcontroller systems and apply radiation-hardened embedded systems for cryptography and image processing, targeting space applications.

Dangerous, Hazardous and Harmful Cargoes - International Maritime Organization 2003

First published: IMO, 1999.

The Oxford Handbook of Corporate Law and Governance - Jeffrey N. Gordon 2018-04-26

Corporate law and corporate governance have been at the forefront of regulatory activities across the world for several decades now, and are subject to increasing public attention following the Global Financial Crisis of 2008. The Oxford Handbook of Corporate Law and Governance provides the global framework necessary to understand the aims and methods of legal research in this field. Written by leading scholars from around the world, the Handbook contains a rich variety of chapters that provide a comparative and functional overview of corporate governance. It opens with the central theoretical approaches and methodologies in corporate law scholarship in Part I, before examining core substantive topics in corporate law, including shareholder rights, takeovers and restructuring, and minority rights in Part II. Part III focuses on new challenges in the

field, including conflicts between Western and Asian corporate governance environments, the rise of foreign ownership, and emerging markets. Enforcement issues are covered in Part IV, and Part V takes a broader approach, examining those areas of law and finance that are interwoven with corporate governance, including insolvency, taxation, and securities law as well as financial regulation. The Handbook is a comprehensive, interdisciplinary resource placing corporate law and governance in its wider context, and is essential reading for scholars, practitioners, and policymakers in the field.

Digital Electronics - Anil K. Maini 2007-09-27

The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, de-multiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers.

Council Communiqué - 1991

Online Engineering & Internet of Things - Michael E. Auer 2017-09-14

This book discusses online engineering and virtual instrumentation, typical working areas for today's engineers and inseparably connected with areas such as Internet of Things, cyber-physical systems, collaborative networks and grids, cyber cloud technologies, and service architectures, to name just a few. It presents the outcomes of the 14th International Conference on Remote Engineering and Virtual Instrumentation (REV2017), held at Columbia University in New York from 15 to 17 March 2017. The conference addressed fundamentals, applications and experiences in the field of online engineering and virtual instrumentation in the light of growing interest in and need for teleworking, remote services and collaborative working environments as a result of the globalization of education. The book also discusses guidelines for education in university-level courses for these topics.

The Sedona Principles - Jonathan M. Redgrave 2007

Introduction to Shipping - 2011-01-01

Metal-Organic Frameworks (MOFs) as Catalysts - Shikha Gulati 2022-02-18

This book highlights the state-of-the-art research and discovery in the use of MOFs in catalysis, highlighting the scope to which these novel materials have been incorporated by the community. It provides an exceptional insight into the strategies for the synthesis and functionalization of MOFs, their use as CO₂ and chemical warfare agents capture, their role in biocatalysis and applications in photocatalysis, asymmetric catalysis, nanocatalysis, etc. This book will also emphasize the challenges with previous signs of progress and way for further research, details relating to the current pioneering technology, and future perspectives with a multidisciplinary approach. Furthermore, it presents up-to-date information on the economics, toxicity, and regulations related to these novel materials.

Essentials of Electronic Testing for Digital, Memory and Mixed-Signal VLSI Circuits - M. Bushnell 2006-04-11

The modern electronic testing has a forty year history. Test professionals hold some fairly large conferences and numerous workshops, have a journal, and there are over one hundred books on testing. Still, a full course on testing is offered only at a few universities, mostly by professors who have a research interest in this area. Apparently, most professors would not have taken a course on electronic testing when they were students. Other than the computer engineering curriculum being too crowded, the major reason cited for the absence of a course on electronic testing is the lack of a suitable textbook. For VLSI the foundation was provided by semiconductor device technology, circuit design, and electronic testing. In a computer engineering curriculum, therefore, it is necessary that foundations should be taught before applications. The field of VLSI has expanded to systems-on-a-chip, which include digital, memory, and mixed-signalsubsystems. To our knowledge this is the first textbook to cover all three types of electronic circuits. We have written this textbook for an undergraduate "foundations" course on electronic testing. Obviously, it is too voluminous for a one-semester course and a teacher will have to select from the topics. We did not restrict such freedom because the selection may depend upon the individual expertise and interests. Besides, there is merit in having a larger book that will retain its usefulness for the owner even after the completion of the course. With equal tenacity, we address the needs of three other groups of readers.

Deployment Guide for InfoSphere Guardium - Whei-Jen Chen 2015-04-14

IBM® InfoSphere® Guardium® provides the simplest, most robust solution for data security and data privacy by assuring the integrity of trusted information in your data center. InfoSphere Guardium helps you reduce support costs by automating the entire compliance auditing process across heterogeneous environments. InfoSphere Guardium offers a flexible and scalable solution to support varying customer architecture requirements. This IBM Redbooks® publication provides a guide for deploying the Guardium solutions. This book also provides a roadmap process for implementing an InfoSphere Guardium solution that is based

on years of experience and best practices that were collected from various Guardium experts. We describe planning, installation, configuration, monitoring, and administering an InfoSphere Guardium environment. We also describe use cases and how InfoSphere Guardium integrates with other IBM products. The guidance can help you successfully deploy and manage an IBM InfoSphere Guardium system. This book is intended for the system administrators and support staff who are responsible for deploying or supporting an InfoSphere Guardium environment.

Single Event Phenomena - G.C. Messenger 2013-11-27

This monograph is written for neophytes, students, and practitioners to aid in their understanding of single event phenomena. It attempts to collect the highlights as well as many of the more detailed aspects of this field into an entity that portrays the theoretical as well as the practical applications of this subject. Those who claim that "theory" is not for them can skip over the earlier chapters dealing with the fundamental and theoretical portions and find what they need in the way of hands-on guidelines and pertinent formulas in the later chapters. Perhaps, after a time they will return to peruse the earlier chapters for a more complete rendition and appreciation of the subject matter. It is felt that the reader should have some acquaintance with the electronics of semiconductors and devices, some broad atomic physics introduction, as well as a respectable level of mathematics through calculus, including simple differential equations. A large part of the preceding can be obtained informally, through job experience, self-study, evening classes, as well as from a formal college curriculum.

Biotechnological Applications of Microalgae - Faizal Bux 2013-05-22

Microalgae are an invaluable biomass source with potential uses that could lead to environmental and economic benefits for society. *Biotechnological Applications of Microalgae: Biodiesel and Value Added Products* presents the latest developments and recent research trends with a focus on potential biotechnologically related uses of microalgae. It gives an analysis of microalgal biology, ecology, biotechnology, and biofuel production capacity as well as a thorough discussion on the value

added products that can be generated from diverse microalgae. The book provides a detailed discussion of microalgal strain selection for biodiesel production, a key factor in successful microalgal cultivation and generation of desired biofuel products. It also describes microalgal enumeration methods, harvesting and dewatering techniques, and the design, and the pros and cons, of the two most common methods for cultivation—open raceway ponds and photobioreactors. Chapters cover lipid extraction and identification, chemical and biological methods for transesterification of microalgal lipids, and procedures involved in life cycle analysis of microalgae. They also examine the importance of microalgal cultivation for climate change abatement through CO₂ sequestration and microalgae involvement in phycoremediation of domestic and industrial wastewaters. The book concludes with a general discussion of microalgal biotechnology and its potential as a modern "green gold rush." The final chapter provides an overview of advanced techniques such as genetic engineering of microalgae to increase lipid yield. This book provides a one-stop benchmark reference on microalgal biotechnology, considering all aspects, from microalgal screening to production of biofuels and other value added products.

Reliability of MEMS - Osamu Tabata 2014-07-21

This first book to cover exclusively and in detail the principles, tools and methods for determining the reliability of microelectromechanical materials, components and devices covers both component materials as well as entire MEMS devices. Divided into two major parts, following a general introductory chapter to reliability issues, the first part looks at the mechanical properties of the materials used in MEMS, explaining in detail the necessary measuring technologies -- nanoindenters, bulge methods, bending tests, tensile tests, and others. Part Two treats the actual devices, organized by important device categories such as pressure sensors, inertial sensors, RF MEMS, and optical MEMS.

Delft Lectures on Architectural Design - Susanne Komossa 2016-02-01

The full professors, associate professors and researchers of TU Delft's Faculty of Architecture and the Built Environment address in the texts that

are collected in this reader key contemporary topics, investigating historical models and theoretical arguments while discussing the latest architecture projects as well prototypical cases. Moreover, diverse contributions present contemporary positions in architectural practice and theory against the background of the modern era (1750-today) as characterised by the conditions of the historical avant-garde, (post)modernity, and its various moments of crisis and critique. Through the series of articles presented here a broad range of questions and themes thus is addressed and explored.

Journal - North Dakota Legislative Assembly House 2015-09-30

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Software-Defined Radio for Engineers - Alexander M. Wyglinski
2018-04-30

Based on the popular Artech House classic, Digital Communication Systems Engineering with Software-Defined Radio, this book provides a practical approach to quickly learning the software-defined radio (SDR) concepts needed for work in the field. This up-to-date volume guides readers on how to quickly prototype wireless designs using SDR for real-world testing and experimentation. This book explores advanced wireless

communication techniques such as OFDM, LTE, WLA, and hardware targeting. Readers will gain an understanding of the core concepts behind wireless hardware, such as the radio frequency front-end, analog-to-digital and digital-to-analog converters, as well as various processing technologies. Moreover, this volume includes chapters on timing estimation, matched filtering, frame synchronization message decoding, and source coding. The orthogonal frequency division multiplexing is explained and details about HDL code generation and deployment are provided. The book concludes with coverage of the WLAN toolbox with OFDM beacon reception and the LTE toolbox with downlink reception. Multiple case studies are provided throughout the book. Both MATLAB and Simulink source code are included to assist readers with their projects in the field.

Fundamentals of Vector Network Analysis - Michael Hiebel 2007

Digital Entrepreneurship - Mariusz Soltanifar 2020-11-13

This open access book explores the global challenges and experiences related to digital entrepreneurial activities, using carefully selected examples from leading companies and economies that shape world business today and tomorrow. Digital entrepreneurship and the companies steering it have an enormous global impact; they promise to transform the business world and change the way we communicate with each other. These companies use digitalization and artificial intelligence to enhance the quality of decisions and augment their business and customer operations. This book demonstrates how cloud services are continuing to evolve; how cryptocurrencies are traded in the banking industry; how platforms are created to commercialize business, and how, taken together, these developments provide new opportunities in the digitalized era. Further, it discusses a wide range of digital factors changing the way businesses operate, including artificial intelligence, chatbots, voice search, augmented and virtual reality, as well as cyber threats and data privacy management. "Digitalization mirrors the Industrial Revolution's impact. This book provides a complement of perspectives on the opportunities emanating from such a deep seated

change in our economy. It is a comprehensive collection of thought leadership mapped into a very useful framework. Scholars, digital entrepreneurs and practitioners will benefit from this timely work.” Gina O’Connor, Professor of Innovation Management at Babson College, USA “This book defines and delineates the requirements for companies to enable their businesses to succeed in a post-COVID19 world. This book deftly examines how to accomplish and achieve digital entrepreneurship by leveraging cloud computing, AI, IoT and other critical technologies. This is truly a unique “must-read” book because it goes beyond theory and provides practical examples.” Charlie Isaacs, CTO of Customer Connection at Salesforce.com, USA "This book provides digital entrepreneurs useful guidance identifying, validating and building their venture. The international authors developed new perspectives on digital entrepreneurship that can support to create impact ventures.” Felix Staeritz, CEO FoundersLane, Member of the World Economic Forum Digital Leaders Board and bestselling author of FightBack, Germany

Reflections of South African University Leaders: 1981 to 2014 -

Council on Higher Education 2016-03-17

Much has been written about the ever-growing demands on university leadership worldwide in the face of increasingly complex changes and challenges from within the academy and beyond. However, as we are reminded by Johan Muller in the Introduction to this book, "there are particular features of time and place that also throw up unique problems". It is precisely 'time and place' that make this set of reflections by university leaders quite remarkable and distinguishes it from the many biographies to be found in the literature on higher education leadership. ... In the main, this collection spans two decades, the 1990s and 2000s, of unprecedented levels of change in South African higher education. Leaders in universities, as well as those responsible for higher education policy in the government and associated statutory bodies, had no neat script to work off, nor 'manuals' or prescripts of 'good' leadership or practice. Instead, there was palpable excitement about collectively imagining and nurturing a new post-apartheid higher education system, which would contribute to the social and economic development needs of

the country, the deepening of democracy and which would also be globally relevant. Most reflections touch on the coalface of leadership, which is the face-to-face interactional dimension, dealing with staff, with students, with council chairs. What comes through clearly, is the importance of what are sometimes called 'people skills'. In these accounts this is not simply presented as a human relations aptitude, for a number of reasons, first of which is the special nature of universities and their occupants. More than one points out the special challenge of managing the talented people that are academics, and their inbuilt distaste for bureaucracy, their reluctance to be managed or told what to do. The message here is consistently one of needing to be completely open with academics, the importance of maintaining the distinction between 'collegial' and 'executive' management (avoiding 'managerialism'), and the critical importance of winning and holding their trust. The inspiration for this collection arose in late 2013 in the Council on Higher Education's (CHE) Monitoring and Evaluation Directorate, the directorate responsible for conducting research on the higher education landscape and monitoring the state of the sector. They noted that conditions besetting universities had grown increasingly complex, both globally but more especially locally, and the question arose - how had this altered the challenges to university leadership over the period between the new political dispensation and the second decade of the new millennium? More particularly, how had leaders with a proven track record of visionary and strong leadership during this period faced these challenges? How did they see the main changes that needed dealing with? What challenges did these changes pose and how were they successfully overcome? What did they think, looking back, were the main constituents of successful leadership and management? What wisdom could be distilled for posterity? The Directorate decided to invite a range of vice-chancellors and senior academic leaders who had completed their terms of office to contribute to a project that set out to gather such reflections and compile them into a publication.

Architectures for Computer Vision - Hong Jeong 2014

This book provides comprehensive coverage of 3D vision systems, from

vision models and state-of-the-art algorithms to their hardware architectures for implementation on DSPs, FPGA and ASIC chips, and GPUs. It aims to fill the gaps between computer vision algorithms and real-time digital circuit implementations, especially with Verilog HDL design. The organization of this book is vision and hardware module directed, based on Verilog vision modules, 3D vision modules, parallel vision architectures, and Verilog designs for the stereo matching system with various parallel architectures. It provides Verilog vision simulators, tailored to the design and testing of general vision chips. It bridges the differences between C/C++ and HDL to encompass both software realization and chip implementation; includes numerous examples that realize vision algorithms and general vision processing in HDL. It is unique in providing an organized and complete overview of how a real-time 3D vision system-on-chip can be designed. It focuses on the digital VLSI aspects and implementation of digital signal processing tasks on hardware platforms such as ASICs and FPGAs for 3D vision systems, which have not been comprehensively covered in one single book. It provides a timely view of the pervasive use of vision systems and the challenges of fusing information from different vision modules. The accompanying website includes software and HDL code packages to enhance further learning and develop advanced systems. A solution set and lecture slides are provided on the book's companion website. The book is aimed at graduate students and researchers in computer vision and embedded systems, as well as chip and FPGA designers. Senior undergraduate students specializing in VLSI design or computer vision will also find the book to be helpful in understanding advanced applications.

Architectural History and Globalized Knowledge - Sonja Hildebrand
2020-09

Power Quality in Electrical Systems - Alexander Kusko 2007-04-22
Identify and Solve Key Electric-Power-Quality Problems and Ensure Reliable Power Delivery to All Customers Power Quality in Electrical Systems equips you with the latest engineering techniques for providing power quality to all customers, and includes vital information on

manufacturing, data processing, and healthcare facilities. Based on an IEEE Professional Education course, the book is a practice-oriented engineering tutorial for solving key electric-power-quality problems. This skills-building resource is designed to improve job performance by taking you step-by-step through voltage distortion...harmonic current sources...power capacitors...corrections for power-quality problems ...switched-mode power supplies...uninterruptible power supplies...standby power systems...power-quality measurements...and more. Filled with 100 detailed illustrations, Power Quality in Electrical Systems enables you to: Spot and correct key electric-power-quality problems Achieve full compliance with IEEE standards Examine switched-mode power supplies, rectifiers, and other loads that produce interference Catch up on the latest standby power systems Get vital information on power quality for manufacturing, data processing, and healthcare facilities Explore power-quality case studies with problems and worked solutions Inside This Comprehensive Power-Quality Guide • Power-quality standards • Voltage distortion • Harmonics • Harmonic current sources • Power harmonic filters • Switched-mode power supplies • Corrections for power-quality problems • Uninterruptible power supplies • Power-quality events • Standby power systems • Power-quality measurements

Durability and Reliability of Polymers and Other Materials in Photovoltaic Modules - Hsinjin Edwin Yang 2019-04-15

Durability and Reliability of Polymers and Other Materials in Photovoltaic Modules describes the durability and reliability behavior of polymers used in Si-photovoltaic modules and systems, particularly in terms of physical aging and degradation process/mechanisms, characterization methods, accelerated exposure chamber and testing, module level testing, and service life prediction. The book compares polymeric materials to traditional materials used in solar applications, explaining the degradation pathways of the different elements of a photovoltaic module, including encapsulant, front sheet, back sheet, wires and connectors, adhesives, sealants, and more. In addition, users will find sections on the tests needed for the evaluation of polymer degradation and aging, as well as accelerated tests to aid in materials selection. As demand for

photovoltaics continues to grow globally, with polymer photovoltaics offering significantly lower production costs compared to earlier approaches, this book will serve as a welcome resource on new avenues. Provides comprehensive coverage of photovoltaic polymers, from fundamental degradation mechanisms, to specific case studies of durability and materials failure Offers practical, actionable information in relation to service life prediction of photovoltaic modules and accelerated testing for materials selection Includes up-to-date information and interpretation of safety regulations and testing of photovoltaic modules and materials

Rethinking Engineering Education - Edward F. Crawley 2014-04-02

This book describes an approach to engineering education that integrates a comprehensive set of personal, interpersonal, and professional engineering skills with engineering disciplinary knowledge in order to prepare innovative and entrepreneurial engineers. The education of engineers is set in the context of engineering practice, that is, Conceiving, Designing, Implementing, and Operating (CDIO) through the entire lifecycle of engineering processes, products, and systems. The book is both a description of the development and implementation of the CDIO model and a guide to engineering programs worldwide that seek to improve the education of young engineers.

Voices of Resilience - Marks Monique 2018

Collaborative Services - François Jégou 2008

Microsoft Official Academic Course - MICROSOFT PRESS 2005-03-02

Easy to follow step-by-step lessons enable students to quickly and efficiently learn the features of Microsoft Word 2003 and how to use them at school, at home, and in the workplace. This Microsoft Official Academic Course offers friendly, straightforward instruction with a focus on real-world business scenarios. Included with the book is a 180-day trial version of Microsoft Office Professional 2003 and dynamic interactive tutorials from the Microsoft eLearning Library. Skills covered in the book correspond to the objectives tested on the Microsoft Office Specialist

Word Core examination. A complete instructor support program is available with the text.

Digital Design with Chisel - Martin Schoeberl 2019-08-30

This book is an introduction into digital design with the focus on using the hardware construction language Chisel. Chisel brings advances from software engineering, such as object-orientated and functional languages, into digital design. This book addresses hardware designers and software engineers. Hardware designers, with knowledge of Verilog or VHDL, can upgrade their productivity with a modern language for their next ASIC or FPGA design. Software engineers, with knowledge of object-oriented and functional programming, can leverage their knowledge to program hardware, for example, FPGA accelerators executing in the cloud. The approach of this book is to present small to medium-sized typical hardware components to explore digital design with Chisel.

Unit Testing in Java - Johannes Link 2003-06-03

Software testing is indispensable and is one of the most discussed topics in software development today. Many companies address this issue by assigning a dedicated software testing phase towards the end of their development cycle. However, quality cannot be tested into a buggy application. Early and continuous unit testing has been shown to be crucial for high quality software and low defect rates. Yet current books on testing ignore the developer's point of view and give little guidance on how to bring the overwhelming amount of testing theory into practice. Unit Testing in Java represents a practical introduction to unit testing for software developers. It introduces the basic test-first approach and then discusses a large number of special issues and problem cases. The book instructs developers through each step and motivates them to explore further. Shows how the discovery and avoidance of software errors is a demanding and creative activity in its own right and can build confidence early in a project. Demonstrates how automated tests can detect the unwanted effects of small changes in code within the entire system. Discusses how testing works with persistency, concurrency, distribution, and web applications. Includes a discussion of testing with C++ and Smalltalk.

Pathways of progression - Field, Simon 2018-11-12

The Architecture of the City - Aldo Rossi 1984-09-13

Aldo Rossi was a practicing architect and leader of the Italian architectural movement La Tendenza and one of the most influential theorists of the twentieth century. The Architecture of the City is his major work of architectural and urban theory. In part a protest against functionalism and the Modern Movement, in part an attempt to restore the craft of architecture to its position as the only valid object of architectural study, and in part an analysis of the rules and forms of the city's construction, the book has become immensely popular among architects and design students.

Digital Design and Computer Architecture - Sarah Harris 2015-04-09

Digital Design and Computer Architecture: ARM Edition covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM microprocessor. Combining an engaging and humorous writing style with an updated and hands-on approach to digital design, this book takes the reader from the fundamentals of digital logic to the actual design of an ARM processor. By the end of this book, readers will be able to build their own microprocessor and will have a top-to-bottom understanding of how it works. Beginning with digital logic gates and progressing to the design of combinational and sequential circuits, this book uses these fundamental building blocks as the basis for designing an ARM processor. SystemVerilog and VHDL are integrated throughout the text in examples illustrating the methods and techniques for CAD-based circuit design. The companion website includes a chapter on I/O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs, Bluetooth radios, and motors. This book will be a valuable resource for students taking a course that combines digital logic and computer architecture or students taking a two-quarter sequence in digital logic and computer organization/architecture. Covers the fundamentals of digital logic design and reinforces logic concepts through the design of an ARM

microprocessor. Features side-by-side examples of the two most prominent Hardware Description Languages (HDLs)—SystemVerilog and VHDL—which illustrate and compare the ways each can be used in the design of digital systems. Includes examples throughout the text that enhance the reader's understanding and retention of key concepts and techniques. The Companion website includes a chapter on I/O systems with practical examples that show how to use the Raspberry Pi computer to communicate with peripheral devices such as LCDs, Bluetooth radios, and motors. The Companion website also includes appendices covering practical digital design issues and C programming as well as links to CAD tools, lecture slides, laboratory projects, and solutions to exercises.

Inclusion Through Access to Higher Education - Marie-Agnès Défourbe 2018

A key feature of the 21st century is undoubtedly the increased flow of goods, ideas and people across geographical, cultural and political boundaries which has led to new dynamics and ever more complex forms of interconnectedness. In this context, the inclusion of people on the move through education is a central issue which this book addresses in an original way: it combines three extensively, yet often separately studied themes - namely access to higher education, immigration and languages. Written by both established and new researchers, the studies which make up this interdisciplinary volume shed light on the complex political, social, and cultural dynamics at play between the three dimensions in different settings. Drawing on the specific stakes related to higher education, the tensions between barriers and opportunities for (future) students such as immigration regulations, language policies and internationalization strategies are analysed and confronted with less visible yet powerful logics such as personal and professional aspirations, cultural identities or family priorities. Decades after many national higher education systems strove to widen access internally to under-represented groups, this book offers new international comparative insights on the way higher education can meet external demands from people experiencing chosen or unchosen displacement, while taking hold of the specific challenges raised by their linguistic and cultural diversity.