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This exceptionally produced trainee guide features a highly illustrated design, technical hints and tips from industry experts, review questions and a whole lot more! Key content includes Introduction to Boilermaking, Boilermaking Safety, Boilermaking Tools, Basic Materials, Oxyfuel Cutting, Cutting and Fitting Gaskets, Welding Basics. Instructor Supplements Instructors: Product supplements may be ordered directly through OASIS at <http://oasis.pearson.com>. For more information contact your Pearson NCCER/Contren Sales Specialist at <http://nccer.pearsonconstructionbooks.com/store/sales.aspx>.

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Food and Beverage Services is a comprehensive textbook designed for hotel management students. It enumerates the various aspects of food and beverage department such as understanding of the industry, organisation of the department, menu served, various service procedures, managing cordial relations with customers, environmental concerns etc.

This food-lover's delight presents exciting, innovative recipes from a well-known figure in the culinary world. Enjoy uniquely presented traditional African cuisine with international flair, all tied together by the common element of ingredients that are organic, natural and sustainable. Elegantly produced with full colour photographs throughout.

As the number of processor cores and IP blocks integrated on a single chip is steadily growing, a systematic approach to design the communication infrastructure becomes necessary. Different variants of packed switched on-chip networks have been proposed by several groups during the past two years. This book summarizes the state of the art of these efforts and discusses the major issues from the physical integration to architecture to operating systems and application interfaces. It also provides a guideline and vision about the direction this

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field is moving to. Moreover, the book outlines the consequences of adopting design platforms based on packet switched network. The consequences may in fact be far reaching because many of the topics of distributed systems, distributed real-time systems, fault tolerant systems, parallel computer architecture, parallel programming as well as traditional system-on-chip issues will appear relevant but within the constraints of a single chip VLSI implementation.

Math 1 B

Introduction to Policing, Third Edition continues to focus on the thought-provoking, contemporary issues that underscore the challenging and rewarding world of policing. Steven M. Cox, Susan Marchionna, and experienced law enforcement officer Brian D. Fitch balance theory, research, and practice to give students a comprehensive, yet concise, overview of both the foundations of policing and the expanded role of today's police officers. The accessible and engaging writing style, combined with stories from the field, make policing concepts and practices easy for students to understand and analyze. Unique coverage of policing in multicultural communities, the impact of technology on policing, and extensive coverage of policing strategies and procedures — such as those that detail the use of force — make this bestselling book a must-have for policing courses.

Addresses the Challenges Associated with System-on-Chip Integration Network-on-Chip: The Next Generation of System-on-Chip Integration examines the current issues restricting chip-on-chip communication efficiency, and explores Network-on-chip (NoC), a promising alternative that equips designers with the capability to produce a scalable, reusable, and high-performance communication backbone by allowing for the integration of a large number of cores on a single system-on-chip (SoC). This book provides a basic overview of topics associated with NoC-based design: communication

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infrastructure design, communication methodology, evaluation framework, and mapping of applications onto NoC. It details the design and evaluation of different proposed NoC structures, low-power techniques, signal integrity and reliability issues, application mapping, testing, and future trends. Utilizing examples of chips that have been implemented in industry and academia, this text presents the full architectural design of components verified through implementation in industrial CAD tools. It describes NoC research and developments, incorporates theoretical proofs strengthening the analysis procedures, and includes algorithms used in NoC design and synthesis. In addition, it considers other upcoming NoC issues, such as low-power NoC design, signal integrity issues, NoC testing, reconfiguration, synthesis, and 3-D NoC design. This text comprises 12 chapters and covers: The evolution of NoC from SoC—its research and developmental challenges NoC protocols, elaborating flow control, available network topologies, routing mechanisms, fault tolerance, quality-of-service support, and the design of network interfaces The router design strategies followed in NoCs The evaluation mechanism of NoC architectures The application mapping strategies followed in NoCs Low-power design techniques specifically followed in NoCs The signal integrity and reliability issues of NoC The details of NoC testing strategies reported so far The problem of synthesizing application-specific NoCs Reconfigurable NoC design issues Direction of future research and development in the field of NoC Network-on-Chip: The Next Generation of System-on-Chip Integration covers the basic topics, technology, and future trends relevant to NoC-based design, and can be used by engineers, students, and researchers and other industry professionals interested in computer architecture, embedded systems, and parallel/distributed systems.

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Using the ecological perspective and emphasizing human diversity, this generalist social work practice text presents the values, knowledge, and skills of intervention that are necessary when working with diverse clientele.

The different areas of study focus systematically on individuals, families, groups, communities, and organizations. Skills of communication, including interviewing and relationship skills, are highlighted.

An authoritative reference on the new generation of VSC-FACTS and VSC-HVDC systems and their applicability within current and future power systems VSC-FACTS-HVDC and PMU: Analysis, Modelling and Simulation in Power Grids provides comprehensive coverage of VSC-FACTS and VSC-HVDC systems within the context of high-voltage Smart Grids modelling and simulation.

Readers are presented with an examination of the advanced computer modelling of the VSC-FACTS and VSC-HVDC systems for steady-state, optimal solutions, state estimation and transient stability analyses, including numerous case studies for the reader to gain hands-on experience in the use of models and concepts.

Key features: Wide-ranging treatment of the VSC achieved by assessing basic operating principles, topology structures, control algorithms and utility-level applications. Detailed advanced models of VSC-FACTS and VSC-HVDC equipment, suitable for a wide range of power network-wide studies, such as power flows, optimal power flows, state estimation and dynamic simulations. Contains numerous case studies and practical examples, including cases of multi-terminal VSC-HVDC systems. Includes a companion website

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featuring MATLAB software and Power System Computer Aided Design (PSCAD) scripts which are provided to enable the reader to gain hands-on experience. Detailed coverage of electromagnetic transient studies of VSC-FACTS and VSC-HVDC systems using the de-facto industry standard PSCAD /EMTDC simulation package. An essential guide for utility engineers, academics, and research students as well as industry managers, engineers in equipment design and manufacturing, and consultants.

Erotic memoir

This clear and lively introduction to probability theory concentrates on the results that are the most useful for applications, including combinatorial probability and Markov chains. Concise and focused, it is designed for a one-semester introductory course in probability for students who have some familiarity with basic calculus. Reflecting the author's philosophy that the best way to learn probability is to see it in action, there are more than 350 problems and 200 examples. The examples contain all the old standards such as the birthday problem and Monty Hall, but also include a number of applications not found in other books, from areas as broad ranging as genetics, sports, finance, and inventory management. This oversized lift-the-flap board book of a child's first 101 words has big, clearly labeled photos of objects in a baby and toddler's world with an interactive puzzle activity on each spread. Identifying words and their meanings is an important foundational step in language development for

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babies and toddlers, and Highlights brings Fun with a Purpose® into this essential learning. Babies will love looking at and naming the photos in this sturdy book, while toddlers and parents will enjoy the lift-the-flap questions and answers that help them find the cute red bird hidden on each spread.

Student attrition has been a perennial theme in South African higher education throughout the decade. In its National Plan for Higher Education (2001), the Department of Education attributed high dropout rates primarily to financial and/or academic exclusions. Four years later, it reported that 30% of students dropped out in their first year of study and a further 20% during their second and third years.

Against this backdrop, the erstwhile research programme on Human Resources Development initiated a research project to investigate more thoroughly why students dropped out, what led them to persist in higher education to graduation, and what made for a successful transition to the labour market. The chapters in this volume address these issues in relation to one or more of seven institutional case studies conducted in 2005.

This book provides a single-source reference to routing algorithms for Networks-on-Chip (NoCs), as well as in-depth discussions of advanced solutions applied to current and next generation, many core NoC-based Systems-on-Chip (SoCs). After a basic introduction to the NoC design paradigm and

architectures, routing algorithms for NoC architectures are presented and discussed at all abstraction levels, from the algorithmic level to actual implementation. Coverage emphasizes the role played by the routing algorithm and is organized around key problems affecting current and next generation, many-core SoCs. A selection of routing algorithms is included, specifically designed to address key issues faced by designers in the ultra-deep sub-micron (UDSM) era, including performance improvement, power, energy, and thermal issues, fault tolerance and reliability.

Presents an introduction to the key project stages from conception through to completion of construction and then beyond to handing over the resulting structures and services for use. This book covers: project promotion, strategy and design; latest forms of contracts for construction; and partnering, alliancing and programme management.

South Africa has made huge gains in ensuring universal enrolment for children at school, and in restructuring and recapitalising the FET college sector. However, some three million young people are not in education, employment or training and the country faces serious challenges in providing its youth with the pathways and support they need to transition successfully into a differentiated system of post-school education and training. Across nine evidence-based chapters, 17 authors offer a succinct overview of the different facets of

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post-school provision in South Africa. These include an analysis of the impact of the national qualifications system on occupational training, the impact of youth unemployment, the capacity of the post-school system to absorb larger numbers of young people, the relationship between universities and FET colleges, the need for more strategic public and private investment in skills development, and a youth perspective on education and training policy. The authors have a number of recommendations for improving the alignment between schooling, further education and training, and university education - interventions that could shape the future of our youth.

This title explores the place of education in development debates and provides a systematic as well as a theoretical overview of the main approaches to education and development. It emphasises the fact that education is profoundly shaped by national and local cultures even if many issues are shared across institutions in different locations. Education and Development discusses different theoretical accounts from different disciplinary traditions to help students understand the complexity of the overall debate. The text does not shy away from discussions of education's negative impacts, and insists that an account of education must include consideration of early childhood development, adult, vocational and higher education, as well as the growing range of informal and distance forms. It includes chapters on human capital, human rights and human development, and on education, gender and development, and draws on examples from a wide range of countries and regions

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such as India, Hong Kong, Kenya and South Africa. The book has a well-developed pedagogy including text boxes, chapter summaries, key questions, links to websites and videos, and annotated further reading sections. Particular attention is paid to ensuring that a plurality of voices, contexts and educational sub-sectors are represented in the boxes, weblinks and references. Education and Development provides an introductory overview to the field, aimed at the undergraduate level, while critically engaging with key themes and questions. The book will also be of interest to development practitioners, policymakers, entrepreneurs and corporate employees engaged in aspects of education and development work.

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