

Mes Cpe Exam Papers 2013

How to ensure educational equality, rights to cultural maintenance and full social participation of minority groups, while ensuring social harmony and national development within a democratic society, is a major challenge for education policy-makers. Traditionally, this is viewed as a debate for pedagogues. Nevertheless, there are important implications for educational planners and managers. Given the many varied patterns of ethnic diversity within individual societies and their different educational traditions, no one set of educational responses is universally applicable. However, as discussed in the booklet, there are certain readily identifiable processes to follow in developing responses to cultural diversity. The three main foci of policy responses put forward are: the organisation and structures of education; curricula, pedagogy and choice of language; and relations between the school and the community.

This book constitutes the refereed proceedings of the Second International Symposium on Benchmarking, Measuring, and Optimization, Bench 2019, held in Denver, CO, USA, in November 2019. The 20 full papers and 11 short papers presented were carefully reviewed and selected from 79 submissions. The papers are organized in topical sections named: Best Paper Session; AI Challenges on Cambircon using AIBenc; AI Challenges on RISC-V using AIBench; AI Challenges on X86 using AIBench; AI Challenges on 3D Face Recognition using AIBench; Benchmark; AI and Edge; Big Data; Datacenter; Performance Analysis; Scientific Computing.

Design a complete Voice over IP (VoIP) or traditional PBX system with Asterisk, even if you have only basic telecommunications knowledge. This bestselling guide makes it easy, with a detailed roadmap that shows you how to install and configure this open source software, whether you're upgrading your existing phone system or starting from scratch. Ideal for Linux administrators, developers, and power users, this updated edition shows you how to write a basic dialplan step-by-step, and brings you up to speed on the features in Asterisk 11, the latest long-term support release from Digium. You'll quickly gain working knowledge to build a simple yet inclusive system. Integrate Asterisk with analog, VoIP, and digital telephony systems Build an interactive dialplan, using best practices for more advanced features Delve into voicemail options, such as storing messages in a database Connect to external services including Google Talk, XMPP, and calendars Incorporate Asterisk features and functions into a relational database to facilitate information sharing Learn how to use Asterisk's security, call routing, and faxing features Monitor and control your system with the Asterisk Manager Interface (AMI) Plan for expansion by learning tools for building distributed systems

Objective Proficiency Second edition provides official preparation for the revised 2013 Cambridge English: Proficiency exam, also known as Certificate of Proficiency in English (CPE). A variety of challenging, lively topics provide thorough training in exam skills and high-level language development. Each unit contains three double-page lessons ensuring flexibility, even pacing and progress. This motivating material is also suitable for high-level students keen to improve their general English. The Workbook with answers provides opportunities for further practice of new language and exam skills either at home or in the classroom. The CD contains the audio material for the Workbook listening tasks.

The third edition of this award-winning Handbook continues the mission of its predecessors: to provide a comprehensive compendium of research in all aspects of distance education, arguably the most significant development in education over the past three decades. While the book deals with education that uses technology, the focus is on teaching and learning and how its management can be facilitated through technology. Key features include: Comprehensive coverage that includes all aspects of distance education, including design, instruction, management, policy, and a section on different audiences. Chapter authors frame their topic in terms of empirical research (past and present) and discuss the nature of current practice in terms of that research. Future research needs are discussed in relation to both confirmed practice and recent changes in the field. Section one provides a unique review of the theories that support distance education pedagogy. Section six includes a unique review of distance education as a component of global culture. This book will be of interest to anyone engaged in distance education at any level. It is also appropriate for corporate and government trainers and for administrators and policy makers in all these environments. Recipient of the 2013 IAP Distance Education Book Award

The aim of this book is to provide an overview of perspectives and approaches to sports development focusing on sport systems, sport participation and public policy towards sports. It includes twelve European countries covering all regions of Europe and eleven countries from around the globe. The objective is to present an overview of the diversity of approaches taken to sport development, focusing on the different sport systems and how sport is financed, the underlying applications of sport policy and how it is reflected in sport participation. This book takes a comparative approach which is reflected in each chapter following a similar structure. The diversity of sports systems in Europe and other continents and their (historical) context is shown. Thereby a range of policy approaches underpinning sport development around the world are presented, making it of interest to both academics and policy-makers concerned with sports economics and policy.

Recent serious and sometimes fatal accidents in chemical research laboratories at United States universities have driven government agencies, professional societies, industries, and universities themselves to examine the culture of safety in research laboratories. These incidents have triggered a broader discussion of how serious incidents can be prevented in the future and how best to train researchers and emergency personnel to respond appropriately when incidents do occur. As the priority placed on safety increases, many institutions have expressed a desire to go beyond simple compliance with regulations to work toward fostering a strong, positive safety culture: affirming a constant commitment to safety throughout their institutions, while integrating safety as an essential element in the daily work of laboratory researchers. Safe Science takes on this challenge. This report examines the culture of safety in research institutions and makes recommendations for university leadership, laboratory researchers, and environmental health and safety professionals to

support safety as a core value of their institutions. The report discusses ways to fulfill that commitment through prioritizing funding for safety equipment and training, as well as making safety an ongoing operational priority. A strong, positive safety culture arises not because of a set of rules but because of a constant commitment to safety throughout an organization. Such a culture supports the free exchange of safety information, emphasizes learning and improvement, and assigns greater importance to solving problems than to placing blame. High importance is assigned to safety at all times, not just when it is convenient or does not threaten personal or institutional productivity goals. Safe Science will be a guide to make the changes needed at all levels to protect students, researchers, and staff.

Starting Out with Programming Logic and Design, Third Edition, is a language-independent introductory programming book that orients students to programming concepts and logic without assuming any previous programming experience. In the successful, accessible style of Tony Gaddis' best-selling texts, useful examples and detail-oriented explanations allow students to become comfortable with fundamental concepts and logical thought processes used in programming without the complication of language syntax. Students gain confidence in their program design skills to transition into more comprehensive programming courses. The book is ideal for a programming logic course taught as a precursor to a language-specific introductory programming course, or for the first part of an introductory programming course.

Medicine is an ever-changing science. Every day we are encountered with the new developments and knowledge in the pathogenesis, mechanism of disease, newer diagnostic modalities, treatment options and new challenges in the management of the various diseases. The same holds true for respiratory diseases with the emergence of new respiratory pathogens having significant impact on the respiratory system. Respiratory Diseases are an important contributor to the morbidity and mortality of mankind since antiquity and its prevalence is on rise in with new disease are being recognized, however little importance has been given to the respiratory disease due to low level of awareness in physicians and general public. This book has been designed to deliver the detailed knowledge about the various respiratory infections including viral, bacterial, and helminthic infections.

This book is useful for IGNOU MA EDUCATION second year EDUCATIONAL MANAGEMENT groups of students. It contains previous years important solved answers that enable students learn about the subject and prepare for their examinations. A perusal of past questions papers gives an idea of the type of questions asked, the paper pattern and so on, it is for this benefit, we provide these IGNOU MES-041: Growth and Development of Educational Management Notes... Students are advised to refer these solutions in conjunction with their reference books. It will help you to improve your exam preparations...In this book, Detailed Explanatory Answers have been provided for the questions for Better Understanding of the Candidates. Hope you find it useful and Best of Luck for your Examination.

In August 2003 over 400 researchers in the field of science education from all over the world met at the 4th ESERA conference in Noordwijkerhout, The Netherlands. During the conference 300 papers about actual issues in the field, such as the learning of scientific concepts and skills, scientific literacy, informal science learning, science teacher education, modeling in science education were presented. The book contains 40 of the most outstanding papers presented during the conference. These papers reflect the quality and variety of the conference and represent the state of the art in the field of research in science education.

The most complete and definitive reference to all aspects of poultry diseases, Diseases of Poultry, Fourteenth Edition has been fully revised and updated to offer a comprehensive survey of current knowledge. Updates the definitive reference of poultry health and disease Provides more clinically relevant information on management of specific diseases, contributed by clinical poultry veterinarians Offers information on disease control in organic and antibiotic-free production Presents more concise, streamlined chapters for ease of use Incorporates advances in the field, from new diagnostic tools and information to changes brought about by the increasing globalization and the re-emergence of zoonotic pathogens

The third edition of this popular work is revised to include the latest developments in this fast-changing field. Its interdisciplinary approach elegantly combines the chemistry and engineering to explore the fundamentals and optimization processes involved.

This publication includes the Proceedings of the PLE Conference 2013. The Conference on Personal Learning Environments is now an established annual international, scientific event and a reference point for the current state of the art in research and development in Personal Learning Environments (PLE). The PLE Conference creates a space for researchers and practitioners to share concepts, case studies and research related to the design, development and implementation of Personal Learning Environments in diverse educational contexts including formal and informal education. The 4th PLE Conference in 2013 took place at Beuth University of Applied Sciences in Berlin, Germany together with a parallel event at Monash University in Melbourne, Australia. The PLE Conference 2013 received 75 submissions and welcomed almost 100 delegates from Europe, Asia, Australasia, North and South America and Africa. The papers included in the Proceedings provide rich and valuable theoretical and empirical insights into Personal Learning Environments. Personal Learning Environments (PLE) is an approach in Technology-Enhanced Learning (TEL) based on the principles of learner autonomy, ownership and empowerment. PLEs are integrated, individual environments for learning which include specific technologies, methods, tools, contents, communities and services constituting complex learning infrastructures, enhancing new educational practices and at the same time emerging from these new practices. This represents a shift away from the traditional model of technology-enhanced learning based on knowledge transfer towards a model based on knowledge construction and sharing.

This book gathers the best contributions from the conference "Digital Transformation of the Economy: Challenges, Trends and New Opportunities", which took place in Samara, Russian Federation, on May 29–31, 2018. Organized by Samara State University of Economics (Samara), Russia, the conference was devoted to issues of the digital economy. Presenting international research on the impact of digitalization on economic development, it includes topics such as the transformation of the institutional environment under the influence of informatization, the comparative analysis of the digitalization development in different countries, and modeling the dependence of the rate of change in the economy on the level of the digitalization penetration into various spheres of human activity. It also covers business-process transformation in the context of digitalization and changes in the structure of employment and personnel training for the digital economy. Lastly, it addresses the issue of ensuring information security and dealing with information risks for both individual enterprises and national economies as a whole. The book appeals to both students and researchers whose interests include the development of the digital economy, as well as to managers and professionals who integrate digital solutions into real-world business practice.

This book examines the role of the inspector within the context of a number of OECD member states and explores the ways in which the inspectors themselves interpret, implement and influence inspection practices and policy. Inspection policy can have various unintended consequences, some of which produce radical discrepancies between the policy intent and its implementation. A number of these discrepancies derive from the way in which the policy is articulated while others derive from the ways in which inspectors interpret and operationalise this policy. This implementation is coloured and conditioned by several factors, including the evidence on which inspectors base their judgements; what counts as evidence in different policy contexts; what counts as valid knowledge in inspection processes; the qualities needed by inspectors working in differing policy contexts and the identities that they adopt in order to successfully carry out their work. The book provides a valuable contribution to our understanding of the politics and practices which colour and shape the legitimacy and

operational execution of inspection policy. The work is unique in its focus on the inspectors' role within the implementation of the inspection process— an element often overlooked in the literature. It also includes two chapters co-written by inspectors, offering unique insights into their life worlds and identities.

Ease the transition to the new COSO framework with practical strategy Internal Control Audit and Compliance provides complete guidance toward the latest framework established by the Committee of Sponsoring Organizations (COSO). With clear explanations and expert advice on implementation, this helpful guide shows auditors and accounting managers how to document and test internal controls over financial reporting with detailed sections covering each element of the framework. Each section highlights the latest changes and new points of emphasis, with explicit definitions of internal controls and how they should be assessed and tested. Coverage includes easing the transition from older guidelines, with step-by-step instructions for implementing the new changes. The new framework identifies seventeen new principles, each of which are explained in detail to help readers understand the new and emerging best practices for efficiency and effectiveness. The revised COSO framework includes financial and non-financial reporting, as well as both internal and external reporting objectives. It is essential for auditors and controllers to understand the new framework and how to document and test under the new guidance. This book clarifies complex codification and provides an effective strategy for a more rapid transition. Understand the new COSO internal controls framework Document and test internal controls to strengthen business processes Learn how requirements differ for public and non-public companies Incorporate improved risk management into the new framework The new framework is COSO's first complete revision since the release of the initial framework in 1992. Companies have become accustomed to the old guidelines, and the necessary procedures have become routine – making the transition to align with the new framework akin to steering an ocean liner. Internal Control Audit and Compliance helps ease that transition, with clear explanation and practical implementation guidance.

This comprehensive pocket-size handbook is the essential reference for clinicians and others serving patients with advanced or life-limiting illness. It offers up-to-date, relevant, and highly practical guidance to expertly meet the challenges of serving these patients and their families. This user-friendly manual emphasizes the importance of honoring patients' wishes throughout their medical journey while meeting their whole-person, often complex needs—from symptom management to attending to spiritual and emotional suffering—and always acknowledges the context of patients' lives, including the needs of loved ones supporting them. The layout makes finding information quick and easy, with alphabetically organized chapter headings and a detailed index. Organ-system-based chapters offer disease-specific, goals-of-care discussion guidance and reviews of etiology, signs and symptoms, assessment, and management—including standard treatment as well as palliative options. Other chapters cover communication with patients and families, consultation with colleagues, and code status discussions, along with valuable subjects such as withdrawing life support, ethics, spirituality, physician-assisted death, and palliative options of last resort. Readers will find practical management strategies for symptoms such as pain, nausea, dyspnea, and delirium. In addition, chapters on opioid use and dosing, and pharmacology of commonly used palliative medications, make this guide an invaluable resource.

Four official examination papers for the 2015 revised Cambridge English: Advanced (CAE) examination from Cambridge English Language Assessment. These examination papers for the Cambridge English: Advanced (CAE) exam provide the most authentic exam preparation available, allowing candidates to familiarise themselves with the content and format of the revised 2015 Cambridge English: Advanced exam and to practise useful exam techniques. The Student's Book without answers is perfect for classroom-based test practice. Audio CDs containing the recordings for the Listening test are available separately or as part of the Student's Book Pack (containing the Student's Book with answers and Audio CDs), also available separately.

In the time since the second edition of The ACS Style Guide was published, the rapid growth of electronic communication has dramatically changed the scientific, technical, and medical (STM) publication world. This dynamic mode of dissemination is enabling scientists, engineers, and medical practitioners all over the world to obtain and transmit information quickly and easily. An essential constant in this changing environment is the requirement that information remain accurate, clear, unambiguous, and ethically sound. This extensive revision of The ACS Style Guide thoroughly examines electronic tools now available to assist STM writers in preparing manuscripts and communicating with publishers. Valuable updates include discussions of markup languages, citation of electronic sources, online submission of manuscripts, and preparation of figures, tables, and structures. In keeping current with the changing environment, this edition also contains references to many resources on the internet. With this wealth of new information, The ACS Style Guide's Third Edition continues its long tradition of providing invaluable insight on ethics in scientific communication, the editorial process, copyright, conventions in chemistry, grammar, punctuation, spelling, and writing style for any STM author, reviewer, or editor. The Third Edition is the definitive source for all information needed to write, review, submit, and edit scholarly and scientific manuscripts.

Objectives The purpose of Top-Down Network Design, Third Edition, is to help you design networks that meet a customer's business and technical goals. Whether your customer is another department within your own company or an external client, this book provides you with tested processes and tools to help you understand traffic flow, protocol behavior, and internetworking technologies. After completing this book, you will be equipped to design enterprise networks that meet a customer's requirements for functionality, capacity, performance, availability, scalability, affordability, security, and manageability. Audience This book is for you if you are an internetworking professional responsible for designing and maintaining medium- to large-sized enterprise networks. If you are a network engineer, architect, or technician who has a working knowledge of network protocols and technologies, this book will provide you with practical advice on applying your knowledge to internetwork design. This book also includes useful information for

consultants, systems engineers, and sales engineers who design corporate networks for clients. In the fast-paced presales environment of many systems engineers, it often is difficult to slow down and insist on a top-down, structured systems analysis approach. Wherever possible, this book includes shortcuts and assumptions that can be made to speed up the network design process. Finally, this book is useful for undergraduate and graduate students in computer science and information technology disciplines. Students who have taken one or two courses in networking theory will find Top-Down Network Design, Third Edition, an approachable introduction to the engineering and business issues related to developing real-world networks that solve typical business problems. Changes for the Third Edition Networks have changed in many ways since the second edition was published. Many legacy technologies have disappeared and are no longer covered in the book. In addition, modern networks have become multifaceted, providing support for numerous bandwidth-hungry applications and a variety of devices, ranging from smart phones to tablet PCs to high-end servers. Modern users expect the network to be available all the time, from any device, and to let them securely collaborate with coworkers, friends, and family. Networks today support voice, video, high-definition TV, desktop sharing, virtual meetings, online training, virtual reality, and applications that we can't even imagine that brilliant college students are busily creating in their dorm rooms. As applications rapidly change and put more demand on networks, the need to teach a systematic approach to network design is even more important than ever. With that need in mind, the third edition has been retooled to make it an ideal textbook for college students. The third edition features review questions and design scenarios at the end of each chapter to help students learn top-down network design. To address new demands on modern networks, the third edition of Top-Down Network Design also has updated material on the following topics: ; Network redundancy ; Modularity in network designs ; The Cisco SAFE security reference architecture ; The Rapid Spanning Tree Protocol (RSTP) ; Internet Protocol version 6 (IPv6) ; Ethernet scalability options, including 10-Gbps Ethernet and Metro Ethernet ; Network design and management tools

Foreword. A transformed scientific method. Earth and environment. Health and wellbeing. Scientific infrastructure. Scholarly communication.

Evaluation has become an important instrument for rational governance and is used in an increasing number of countries and policy fields. Recent developments at the global, national and local level are changing the conditions and functions of evaluation worldwide. This book examines current global development trends and changing demands for evaluation. It addresses issues surrounding professionalisation and globalisation, examining the need to strengthen accountability for social development in various different policy fields, regions and countries to improve governance and its impacts on social betterment. It also considers issues of quality, utility and further education and the upgrading of evaluation in a broad variety of different organisations, such as multilateral donor organisations, national public administrations, private consultancies, civil-society organisations, universities, and research institutes. With contributions from 30 different countries, this book combines a broad variety of viewpoints to examine the global future of evaluation.

Language regulation has often been approached from a top-down policy perspective, whereas this book examines regulatory practices employed by speakers in interaction. With its ethnographically informed focus on language regulation in academic English as a lingua franca (ELF), the book is a timely contribution to debates about what counts as acceptable English in ELF contexts, who can act as language expert, and when regulation is needed.

Objective Proficiency Second edition provides official preparation for the revised 2013 Cambridge English: Proficiency exam, also known as Certificate of Proficiency in English (CPE). A variety of challenging, lively topics provide thorough training in exam skills and high-level language development. Each unit contains three double-page lessons ensuring flexibility, even pacing and progress. This motivating material is also suitable for high-level students keen to improve their general English. The Class Audio CDs contain all the audio material for the listening exercises in the Student's Book. Interactive software, downloadable from a URL contained in the Student's Book, provides activities for practice of exam skills, grammar and vocabulary.

A comprehensive teacher resource pack from Cambridge ESOL to help teachers who are preparing students to take the Cambridge English: Proficiency (CPE) Speaking test. The Speaking Test Preparation Pack for Cambridge English: Proficiency (CPE) is a comprehensive teacher resource pack from Cambridge ESOL to help teachers who are preparing students to take the Cambridge English: Proficiency Speaking test. Written by experienced examiners, it includes student worksheets with teacher's notes, two sets of candidate visuals for Speaking test practice in class, and a DVD of students taking a Proficiency Speaking test so students can see what they will have to do on the day of the test. This pack is for the updated exam from 2013.

All the Knowledge You Need to Build Cybersecurity Programs and Policies That Work Clearly presents best practices, governance frameworks, and key standards Includes focused coverage of healthcare, finance, and PCI DSS compliance An essential and invaluable guide for leaders, managers, and technical professionals Today, cyberattacks can place entire organizations at risk. Cybersecurity can no longer be delegated to specialists: success requires everyone to work together, from leaders on down. Developing Cybersecurity Programs and Policies offers start-to-finish guidance for establishing effective cybersecurity in any organization. Drawing on more than 20 years of real-world experience, Omar Santos presents realistic best practices for defining policy and governance, ensuring compliance, and collaborating to harden the entire organization. First, Santos shows how to develop workable cybersecurity policies and an effective framework for governing them. Next, he addresses risk management, asset management, and data loss prevention, showing how to align functions from HR to physical security. You'll discover best practices for securing communications, operations, and access; acquiring, developing, and maintaining technology; and responding to incidents. Santos concludes with detailed coverage of compliance in finance and healthcare, the crucial Payment Card Industry Data Security Standard (PCI DSS) standard, and the NIST Cybersecurity Framework. Whatever your current responsibilities,

this guide will help you plan, manage, and lead cybersecurity—and safeguard all the assets that matter. Learn How To · Establish cybersecurity policies and governance that serve your organization's needs · Integrate cybersecurity program components into a coherent framework for action · Assess, prioritize, and manage security risk throughout the organization · Manage assets and prevent data loss · Work with HR to address human factors in cybersecurity · Harden your facilities and physical environment · Design effective policies for securing communications, operations, and access · Strengthen security throughout the information systems lifecycle · Plan for quick, effective incident response and ensure business continuity · Comply with rigorous regulations in finance and healthcare · Plan for PCI compliance to safely process payments · Explore and apply the guidance provided by the NIST Cybersecurity Framework

This book contrasts authentic approaches to education with classroom practices based primarily on standards external to the individuals who are supposed to learn. While other books tend to promote either a desperate scramble for meeting standards or determined resistance to neoliberal reforms, this book fills that gap in ways that will inspire practitioners, prospective teachers, and teacher educators. Mandates pay only lip service to constructivist and social constructivist principles while thwarting the value of both students and teachers actively creating understandings. Authors in this book assert the central importance of a range of constructivist approaches to teaching, learning, and thinking, inviting careful reflection on the goals and values of education.

Learning Under the Lens: Applying Findings from the Science of Learning to the Classroom highlights the innovative approach being undertaken by researchers from the disparate fields of neuroscience, education and psychology working together to gain a better understanding of how we learn, and its potential to impact student learning outcomes. The book is structured in four parts: 'Science of learning: a policy perspective' sets the scene for this emerging field of research; 'Self regulation of learning' and 'Technology and learning' feature findings by eminent international and national researchers in the field and provides an insight into some of the innovative research illustrating the depth, breadth and multi-disciplinarity of the research; and 'Research translation' focuses on the scaled-up implementation of research findings in authentic learning settings, and showcases research findings which are having impact in learning environments. This fascinating book is intended as a reference tool to create awareness among researchers, policy makers, and education practitioners of the research being undertaken in the science of learning field and its potential to impact student learning outcomes.

This edited book brings together fifteen original empirical studies from a variety of international contexts to provide a detailed exploration of language assessment, testing and evaluation. Language assessment has a key role in the development and implementation of language and educational policies at the national level, and this book examines some of the impacts - both positive and negative - of different skills testing and examination approaches on learning outcomes and individual students' language learning. This book will be of interest to scholars working in applied linguistics and language education, teacher training, testing and evaluation, as well as stakeholders such as practitioners, educators, educational agencies, and test developers.

Computation in Cellular and Molecular Biological Systems is a selection of papers presented at the First International Workshop on Information Processing in Cells and Tissues (IPCAT 95). The book contains contributions from mathematicians, biochemists, cell biologists, physiologists and computer scientists. It is multidisciplinary in nature and deals with integrative aspects of information processing, cellular systems and dynamical methods.

Contents: Introduction Information Processing and Signalling Processes Information Processing and Cellular Systems Dynamical Models of Cellular Systems and Information Processing Readership: Mathematicians, biochemists, cell biologists, physiologists and computational scientists. keywords: Information Processing; Cells; Tissues; Computation; Cellular; Molecular Biological Systems; Physiology

Covers all the new task types for the revised 2013 exam Online Skills and Language Practice pack Strong focus on contextualised grammar and vocabulary Writing guide with writing improvement tasks Over 150 skills-training, exam-practice, vocabulary and grammar exercises to do online Grammar reference section by expert George Yule

The popularity of the Internet and the affordability of IT hardware and software have resulted in an explosion of applications, architectures, and platforms. Workloads have changed. Many applications, including mission-critical ones, are deployed on various platforms, and the IBM® System z® design has adapted to this change. It takes into account a wide range of factors, including compatibility and investment protection, to match the IT requirements of an enterprise. This IBM Redbooks® publication addresses the new IBM zEnterprise® System. This system consists of the IBM zEnterprise EC12 (zEC12), an updated IBM zEnterprise Unified Resource Manager, and the IBM zEnterprise BladeCenter® Extension (zBX) Model 003. The zEC12 is designed with improved scalability, performance, security, resiliency, availability, and virtualization. The superscalar design allows the zEC12 to deliver a record level of capacity over the prior System z servers. It is powered by 120 of the world's most powerful microprocessors. These microprocessors run at 5.5 GHz and are capable of running more than 75,000 millions of instructions per second (MIPS). The zEC12 Model HA1 is estimated to provide up to 50% more total system capacity than the IBM zEnterprise 196 (z196) Model M80. The zBX Model 003 infrastructure works with the zEC12 to enhance System z virtualization and management. It does so through an integrated hardware platform that spans mainframe, IBM POWER7®, and IBM System x® technologies. Through the Unified Resource Manager, the zEnterprise System is managed as a single pool of resources, integrating system and workload management across the environment. This book provides information about the zEnterprise System and its functions, features, and associated software support. Greater detail is offered in areas relevant to technical planning. It is intended for systems engineers, consultants, planners, and anyone who wants to understand the zEnterprise System functions and plan for their usage. It is not intended as an introduction to mainframes. Readers are expected to be generally familiar with existing IBM System z® technology and terminology.

This book provides an overview of beach management tools, including carrying capacity, beach nourishment, environmental and tourism awards (like Blue Flag or others), bathing water quality, zoning, beach typologies, quality index, user's perception, interdisciplinary beach monitoring, coastal legislation, shore protection, social and economic indicators, ecosystem services, and coastal governance (applied in beach case studies). Beaches are one of the most intensely used coastal ecosystems and are responsible for more than half of all global tourism revenues, and as such the book introduces a wide range of state-of-the-art tools that can be used to deal with a variety of beach challenges. Each chapter features specific types of tools that can be applied to advantage in beach management practices. With examples of

local and regional case studies from around the globe, this is a valuable resource for anyone involved in beach management.

In a smarter planet, information-centric processes are exploding in growth. The mainframe has always been the IT industry's leading platform for transaction processing, consolidated and secure data serving, and support for available enterprise-wide applications. IBM® has extended the mainframe platform to help large enterprises reshape their client experiences through information-centric computing and to deliver on key business initiatives. IBM zEnterprise® is recognized as the most reliable and trusted system, and the most secure environment for core business operations. The new zEnterprise System consists of the IBM zEnterprise EC12 (zEC12) or IBM zEnterprise BC12 (zBC12), the IBM zEnterprise Unified Resource Manager, and the IBM zEnterprise IBM BladeCenter® Extension (zBX) Model 003. This IBM Redbooks® publication describes the zEC12 and zBC12, with their improved scalability, performance, security, resiliency, availability, and virtualization. The zEnterprise System has no peer as a trusted platform that also provides the most efficient transaction processing and database management. With efficiency at scale delivering significant cost savings on core processes, resources can be freed up to focus on developing new services to drive growth. This book provides a technical overview of the zEC12, zBC12, zBX Model 003, and Unified Resource Manager. This publication is intended for IT managers, architects, consultants, and anyone else who wants to understand the elements of the zEnterprise System. For this introduction to the zEnterprise System, readers are not expected to be familiar with current IBM System z® technology and terminology.

The Second Edition of Content Analysis: An Introduction to Its Methodology is a definitive sourcebook of the history and core principles of content analysis as well as an essential resource for present and future studies. The book introduces readers to ways of analyzing meaningful matter such as texts, images, voices – that is, data whose physical manifestations are secondary to the meanings that a particular population of people brings to them. Organized into three parts, the book examines the conceptual and methodological aspects of content analysis and also traces several paths through content analysis protocols. The author has completely revised and updated the Second Edition, integrating new information on computer-aided text analysis. The book also includes a practical guide that incorporates experiences in teaching and how to advise academic and commercial researchers. In addition, Krippendorff clarifies the epistemology and logic of content analysis as well as the methods for achieving its aims. Intended as a textbook for advanced undergraduate and graduate students across the social sciences, Content Analysis, Second Edition will also be a valuable resource for practitioners in a variety of disciplines.

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