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Math K B Nist Cloud Computing Reference Architecture Recommendations of the National Institute of Standards and Technology (Special Publication 500-292) CreateSpace *The National Institute of Standards and Technology, Special Publication 500-292 discusses how the adoption of cloud computing into the Federal Government and its implementation depend upon a variety of technical and non-technical factors. A fundamental reference point, based on the NIST definition of Cloud Computing, is needed to describe an overall framework that can be used government-wide. This document presents the NIST Cloud Computing Reference Architecture (RA) and Taxonomy (Tax) that will accurately communicate the components and offerings of cloud computing.~* **Digital Design of Signal Processing Systems A Practical Approach** John Wiley & Sons *Digital Design of Signal Processing Systems discusses a spectrum of architectures and methods for effective implementation of algorithms in hardware (HW). Encompassing all facets of the subject this book includes conversion of algorithms from floating-point to fixed-point format, parallel architectures for basic computational blocks, Verilog Hardware Description Language (HDL), SystemVerilog and coding guidelines for synthesis. The book also covers system level design of Multi Processor System on Chip (MPSoC); a consideration of different design methodologies including Network on Chip (NoC) and Kahn Process Network (KPN) based connectivity among processing elements. A special emphasis is placed on implementing streaming applications like a digital communication system in HW. Several novel architectures for implementing commonly used algorithms in signal processing are also revealed. With a comprehensive coverage of topics the book provides an appropriate mix of examples to illustrate the design methodology. Key Features: A practical guide to designing efficient digital systems, covering the complete spectrum of digital design from a digital signal processing perspective Provides a full account of HW building blocks and their architectures, while also elaborating effective use of embedded computational resources such as multipliers, adders and memories in FPGAs Covers a system level architecture using NoC and KPN for streaming applications, giving examples of structuring MATLAB code and its easy mapping in HW for these applications Explains state machine based and Micro-Program architectures with comprehensive case studies for mapping complex applications The techniques and examples discussed in this book are used in the award winning products from the Center for Advanced Research in Engineering (CARE). Software Defined Radio, 10 Gigabit VoIP monitoring system and Digital Surveillance equipment has respectively won APICTA (Asia Pacific Information and Communication Alliance) awards in 2010 for their unique and effective designs.* **Irish Builder and Engineer Virtual Reality Scientific and Technological Challenges** National Academies Press *Despite widespread interest in virtual reality, research and development efforts in synthetic environments (SE)--the field encompassing virtual environments, teleoperation, and hybrids--have remained fragmented. Virtual Reality is the first integrated treatment of the topic, presenting current knowledge along with thought-provoking vignettes about a future where SE is commonplace. This volume discusses all aspects of creating a system that will allow human operators to see, hear, smell, taste, move about, give commands, respond to conditions, and manipulate objects effectively in a real or virtual environment. The committee of computer scientists, engineers, and psychologists on the leading edge of SE development explores the potential applications of SE in the areas of manufacturing, medicine, education, training, scientific visualization, and teleoperation in hazardous environments. The committee also offers recommendations for development of improved SE technology, needed studies of human behavior and evaluation of SE systems, and government policy and infrastructure.* **Dorothy Heathcote Drama as a Learning Medium** Heinemann Drama *This book gives us a close-up detailing of this gifted, dynamic teacher in a variety of classroom settings, along with analyses of Heathcote's remarkable improvisations with young people.* **Encyclopedia of Information Science and Technology** IGI Global *Snippet "This set of books represents a detailed compendium of authoritative, research-based entries that define the contemporary state of knowledge on technology"--Provided by publisher.* **The Magic of Thinking Big** Penguin *The timeless and practical advice in The Magic of Thinking Big clearly demonstrates how you can: Sell more Manage better Lead fearlessly Earn more Enjoy a happier, more fulfilling life With applicable and easy-to-implement insights, you'll discover: Why believing you can succeed is essential How to quit making excuses The means to overcoming fear and finding confidence How to develop and use creative thinking and dreaming Why making (and getting) the most of your attitudes is critical How to think right towards others The best ways to make "action" a habit How to find victory in defeat Goals for growth, and How to think like a leader "Believe Big," says Schwartz. "The size of your success is determined by the size of your belief. Think little goals and expect little achievements. Think big goals and win big success. Remember this, too! Big ideas and big plans are often easier -- certainly no more difficult - than small ideas and small plans."* **Proceedings of the 28th International Symposium on Mine Planning and Equipment Selection - MPES 2019** Springer Nature *This conference proceedings presents the research papers in the field of mine planning and mining equipment including themes such as mine automation, rock mechanics, drilling, blasting, tunnelling and excavation engineering. The papers presents the recent advancement and the application of a range of technologies in the field of mining industry. It is of interest to the professionals who practice in mineral industry including but not limited to engineers, consultants, managers, academics, scientist, and government staff.* **The Art-union Guide to Computer Security Log Management** *A log is a record of the events occurring within an org¿s. systems & networks. Many logs within an org. contain records related to computer security (CS). These CS logs are generated by many sources, incl. CS software, such as antivirus software, firewalls, & intrusion detection & prevention systems; operating systems on servers, workstations, & networking equip.; & applications. The no., vol., & variety of CS logs have increased greatly, which has created the need for CS log mgmt. -- the process for generating, transmitting, storing, analyzing, & disposing of CS data. This report assists org¿s. in understanding the need for sound CS log mgmt. It provides practical, real-world guidance on developing, implementing, & maintaining effective log mgmt. practices. Illus.* **A Guide to Airborne, Impact, and Structure Borne Noise-control in Multifamily Dwellings Prepared for the Federal Housing Administration The Mycobacterial Cell Envelope** Amer Society for Microbiology *Explains the unique characteristics that cause this large group of bacteria responsible for tuberculosis and leprosy to function differently; serves as a valuable reference for those working in the areas of biochemistry, genetics, genomics, and immunology.* **Final Report on the Collapse of the World Trade Center Towers** *This is the final report of the National Institute of Standards and Technology (NIST) investigation of the collapse of the World Trade Center (WTC) towers, conducted under the National Construction Safety Team Act.* **Painting in Pastels** Crowood *Pastels are an extremely versatile and immediate medium. These characteristics can lead to bold, exciting and impromptu paintings, however, their responsive, flexible nature can also be used to create subtle, gentle colour with little or no texture. This practical book will guide you through the full scope of painting in pastels and explain particularly how they can be used to capture light, colour and texture. With step-by-step instructions in a wide range of subject matter, Painting in Pastels will be invaluable for beginners and experienced artists alike. In it, the techniques are demonstrated and explained; advice is given on subject selection and composition; emphasis is placed on light, tone and colour; and there are sections on painting landscapes, coastal scenery, interiors, still life, figures and portraits. Superbly illustrated with 274 colour illustrations.* **Covid-19 Challenges for Pakistan e-Infrastructure and e-Services for Developing Countries 9th International Conference, AFRICOMM 2017, Lagos, Nigeria, December 11-12, 2017, Proceedings** Springer *This book constitutes the thoroughly refereed proceedings of the 9th International Conference on e-Infrastructure and e-Services for Developing Countries, AFRICOMM 2017, held in Lagos, Nigeria, in December 2017. The 19 full papers, 12 short papers and 5 workshop papers were carefully selected from 81 submissions. The papers were presented in eight sessions: e-government, network and load management, digital inclusion, knowledge extraction, representation and sharing, networks and communications, ICT applications for development, decision support, e-business and e-services, internet measurement.* **Internet of Medical Things Remote Healthcare Systems and Applications** Springer Nature *This book looks at the growing segment of Internet of Things technology (IoT) known as Internet of Medical Things (IoMT), an automated system that aids in bridging the gap between isolated and rural communities and the critical healthcare services that are available in more populated and urban areas. Many technological aspects of IoMT are still being researched and developed, with the objective of minimizing the cost and improving the performance of the overall healthcare system. This book focuses on innovative IoMT methods and solutions being developed for use in the application of healthcare services, including post-surgery care, virtual home assistance, smart real-time patient monitoring, implantable sensors and cameras, and diagnosis and treatment planning. It also examines critical issues around the technology, such as security vulnerabilities, IoMT machine learning approaches, and medical data compression for lossless data transmission and archiving. Internet of Medical Things is a valuable reference for researchers, students, and postgraduates working in biomedical, electronics, and communications engineering, as well as practicing healthcare professionals.* **Advanced Information Systems Engineering Workshops CAiSE 2012 International Workshops, Gdańsk, Poland, June 25-26, 2012, Proceedings** Springer *This book constitutes the thoroughly refereed proceedings of eight international workshops held in Gdańsk, Poland, in conjunction with the 24th International Conference on Advanced Information Systems Engineering, CAiSE 2012, in June 2012. The 35 full and 17 short revised papers were carefully selected from 104 submissions. The eight workshops were Agility of Enterprise Systems (AgilES), Business/IT Alignment and Interoperability (BUSITAL), Enterprise and Organizational Modeling and Simulation (EOMAS), Governance, Risk and Compliance (GRCIS), Human-Centric Process-Aware Information Systems (HC-PAIS), System and Software Architectures (IWSSA), Ontology, Models, Conceptualization and Epistemology in Social, Artificial and Natural Systems (ONTOSE), and Information Systems Security Engineering (WISSE).* **Health Care Architecture in the Netherlands** Nai Uitgevers Pub *Summary: Healthcare Architecture in the Netherlands describes the development of buildings for health care: hospitals and psychiatric institutions as well as housing and care facilities for the elderly. Eight chapters provide a chronological overview of the architecture of buildings for health care, from its emergence as a specific typology to the most recent care complexes. In addition, some 50 buildings from the last century and a half are described and illustrated in detail. A series of thematic texts addresses specific aspects of national and international architecture of the twentieth and twenty-first centuries in relation to buildings for the healthcare sector.* **Python for Everybody Exploring Data in Python 3** *Python for Everybody is designed to introduce students to programming and software development through the lens of exploring data. You can think of the Python programming language as your tool to solve data problems that are beyond the capability of a spreadsheet.Python is an easy to use and easy to learn programming language that is freely available on Macintosh, Windows, or Linux computers. So once you learn Python you can use it for the rest of your career without needing to purchase any software.This book uses the Python 3 language. The earlier Python 2 version of this book is titled "Python for Informatics: Exploring Information".There are free downloadable electronic copies of this book in various formats and supporting materials for the book at www.pythonlearn.com. The course materials are available to you under a Creative Commons License so you can adapt them to teach your own Python course.* **2021 International Conference on Digital Futures and Transformative Technologies (ICoDT2)** *The purpose of this activity is to provide a forum for researchers, developers and practitioners from both academia and industry to meet and share cutting edge advancements in the field of Digital Futures and Transformative Technologies* **COBIT 5 Implementation** ISACA **The Social Function of Science** Faber & Faber *J. D. Bernal's*

important and ambitious work, The Social Function of Science, was first published in January 1939. As the subtitle -What Science Does, What Science Could Do - suggests it is in two parts. Both have eight chapters. Part 1: What Science Does: Introductory, Historical, The Existing Organization of Scientific Research in Britain, Science in Education, The Efficiency of Scientific Research, The Application of Science, Science and War and International Science. Part 11: What Science Could Do: The Training of the Scientist, The Reorganization of Research, Scientific Communication, The Finance of Science, The Strategy of Scientific Advance; Science in the Service of Man, Science and Social Transformation and The Social Function of Science. To quote Bernal's biographer, Andrew Brown, 'The Social Function of Science . . . was Bernal's attempt to ensure that science would no longer be just a protected area of intellectual inquiry, but would have as an inherent function the improvement of life for mankind everywhere. It was a groundbreaking treatise both in exploring the scope of science and technology in fashioning public policy, with Bernal arguing that science is the chief agent of change in society, and in devising policies that would optimize the way science was organized. The sense of impending war clearly emerges. Bernal deplored the application of scientific discoveries in making war ever more destructive, while acknowledging that the majority of scientific and technical breakthroughs have their origins in military exigencies, both because of the willingness to spend money and the premium placed on novelty during wartime.' Anticipating by two decades the schism C. P. Snow termed 'The Two Cultures', Bernal remarked that 'highly developed science stands almost isolated from a traditional literary culture.' He found that wrong. Again, quoting Andrew Brown, 'to him, science was a creative endeavour that still depended on inspiration and talent, just as much as in painting, writing or composing.' The importance of this book was such that twenty-five years after its publication, a collection of essays, The Science of Science, was published, in part in celebration, but also to explore many of the themes Bernal had first developed. **Modified Asphalt** BoD – Books on Demand Asphalt modification is an important area in the development of new road and pavement materials. There is an urgent demand for road materials that can minimize fracture at low temperatures and increase resistance to deformation at high temperatures. The function of asphalt is to bind aggregate to protect it from water and other harmful agents. In the beginning asphalt was ideal for this purpose, but recently traffic loads have increased and environmental factors have deteriorated more rapidly than before. Asphalt is a byproduct of crude oil in the refining process, and it is considered a complex heterogeneous mixture of hydrocarbons. Asphalt modification has become an important research area, using several methods and new materials as modifiers. **The Ultimate BMAT Collection: 5 Books In One, Over 2500 Practice Questions & Solutions, Includes 8 Mock Papers, Detailed Essay Plans, BioMedical Adm** The Ultimate BMAT Collection is your Complete Collection to achieving top scores on the BioMedical Admissions Test. The Ultimate BMAT Collection includes: FIVE of our best selling BMAT books in ONE volume Written by BMAT Specialists, doctors and medical tutors who have scored in the top 10% of the BMAT providing time-saving tips and strategies. The Ultimate BMAT Collection - contains comprehensive information about the BioMedical Admissions Test (BMAT), including tips, techniques and strategies to save you time and maximise your scores. Covers each of the three sections in detail and prepares you for all question types that you'll face in the exam, and how to approach them successfully, including sample essays. Also includes 300 questions and fully worked solutions so you can practice your skills and understand how to improve. This book includes: The Ultimate BMAT Guide - contains comprehensive information about the BioMedical Admisions Test (BMAT), including tips, techniques and strategies to save you time and maximise your scores. Covers each of the three sections in detail, and prepares you for all question types that you'll face in the exam, and how to approach them successfully, including sample essays. Also includes 800 questions and fully worked solutions so you can practice your skills and understand how to improve. BMAT Practice Papers Volume 1 - updated very year, contains mock papers: 250 questions with fully worked solutions to help you improve your scores. BMAT Worked Solutions Volume 1 - clear, thorough, and extensive solutions to the practice papers, written by experts, providing worked solutions and sample answers to ensure you can put your learning into practice. BMAT Practice Papers Volume 2 - updated every year, contains mock papers: 450 questions with fully worked solutions to help you improve your scores. BMAT Worked Solutions Volume 2 - clear, thorough, and extensive solutions to the practice papers, written by experts, providing worked solutions and sample answers to ensure you can put your learning into practice. The latest specification break-down, including topics and types of questions to expect. Tips on how to prepare, essential tips and strategies. 5 Books in 1: The Ultimate BMAT Guide, BMAT Practice Papers Volume 1, BMAT Worked Solutions Volume 1, BMAT Practice Papers Volume 2, BMAT Worked Solutions Volume 2. Written by BMAT tutors, students and admissions tutors with full of insider knowledge and tips, The Ultimate BMAT Collection is designed to help you make the most of your preparation, approach the BMAT with confidence, and get those top scores. About Us From Infinity Books, the publishing division of the UK's leading Oxbridge and Medical Admissions company, The Ultimate BMAT Collection gives you the best and most fully comprehensive collection to your BioMedical Admissions Test application success. Hungry for more? Visit the Uni Admissions website for more application resources, admissions test strategies, and application support. **MCAT Critical Analysis and Reasoning Skills Review** Princeton Review "Complete coverage of the critical analysis and reasoning skills needed for the MCAT, detailed explanations for every practice question, strategies for a competitive edge; 3 full-length online practice tests"--Cover. **Mindfulness & the Art of Drawing A Creative Path to Awareness** Leaping Hare Press Everyone can draw. And everyone can be mindful. Mindfulness & the Art of Drawing is an engaging and enlightening insight into why the everyday process of setting pencil to paper is a meditative act by its innate nature. An enjoyable and discursive text offers an absorbing read and is accompanied by exercises that offer the reader practical experience in drawing mindfully. A lively, surprising and inspirational creative journey. **Rising to the Challenge U.S. Innovation Policy for the Global Economy** National Academies Press America's position as the source of much of the world's global innovation has been the foundation of its economic vitality and military power in the post-war. No longer is U.S. pre-eminence assured as a place to turn laboratory discoveries into new commercial products, companies, industries, and high-paying jobs. As the pillars of the U.S. innovation system erode through wavering financial and policy support, the rest of the world is racing to improve its capacity to generate new technologies and products, attract and grow existing industries, and build positions in the high technology industries of tomorrow. Rising to the Challenge: U.S. Innovation Policy for Global Economy emphasizes the importance of sustaining global leadership in the commercialization of innovation which is vital to America's security, its role as a world power, and the welfare of its people. The second decade of the 21st century is witnessing the rise of a global competition that is based on innovative advantage. To this end, both advanced as well as emerging nations are developing and pursuing policies and programs that are in many cases less constrained by ideological limitations on the role of government and the concept of free market economics. The rapid transformation of the global innovation landscape presents tremendous challenges as well as important opportunities for the United States. This report argues that far more vigorous attention be paid to capturing the outputs of innovation - the commercial products, the industries, and particularly high-quality jobs to restore full employment. America's economic and national security future depends on our succeeding in this endeavor. **Reliable Software for Unreliable Hardware A Cross Layer Perspective** Springer This book describes novel software concepts to increase reliability under user-defined constraints. The authors' approach bridges, for the first time, the reliability gap between hardware and software. Readers will learn how to achieve increased soft error resilience on unreliable hardware, while exploiting the inherent error masking characteristics and error (stemming from soft errors, aging, and process variations) mitigations potential at different software layers. **Art Models 10 Photos for Figure Drawing, Painting, & Sculpting** "The best way to improve in figure art is to practice, which requires quality reference material that inspires you. That's what the Art Models series is all about. With nearly 200 photos of nude art models--both female and male--Art Models 10 will inspire students and professionals alike to practice and create finished works of art (which may be sold royalty free). For students, we provide a brief instructional exercise at the beginning of the book written by author and art teacher Butch Krieger that will have you improving right away using pose photos. The 100 distinct poses within the book were selected by a team of experienced art instructors to ensure they are genuinely useful for both students and professionals, with the inclusion of hands, feet, and faces that give close-up views of these notoriously tricky areas. Become a better artist with Art Models 10--novices can practice and experts can perfect."--Amazon.com. **The Ultimate Guide to SAT Grammar** CreateSpace Learn the rules needed to ace the writing section and how to apply them to the SAT. **A Student's Guide to the Mathematics of Astronomy** Cambridge University Press Plain-language explanations and a rich set of supporting material help students understand the mathematical concepts and techniques of astronomy. **Green Building in Developing Countries Policy, Strategy and Technology** Springer The book reveals how green buildings are currently being adapted and applied in developing countries. It includes the major developing countries such as China, Indonesia, Malaysia, Thailand, Pakistan, Cambodia, Ghana, Nigeria and countries from the Middle East and gathers the insights of respected green building researchers from these areas to map out the developing world's green building revolution. The book highlights these countries' contribution to tackling climate change, emphasising the green building benefits and the research behind them. The contributing authors explore how the green building revolution has spread to developing countries and how national governments have initiated their own green building policies and agendas. They also explore how the market has echoed the green building policy, and how a business case for green buildings has been established. In turn, they show how an international set of green building standards, in the form of various techniques and tools, has been incorporated into local building and construction practices. In closing, they demonstrate how the developing world is emerging as a key player for addressing the energy and environmental problems currently facing the world. The book helps developers, designers and policy-makers in governments and green building stakeholders to make better decisions on the basis of global and local conditions. It is also of interest to engineers, designers, facility managers and researchers, as it provides a holistic picture of how the industry is responding to the worldwide call for greener and more sustainable buildings. **High-Quality, High-Volume Spay and Neuter and Other Shelter Surgeries** John Wiley & Sons This comprehensive reference provides veterinarians with everything they need to know about performing surgeries such as spaying and neutering in busy animal shelters. It includes surgical and anesthetic techniques, perioperative procedures, reproductive medicine, and program management regarding dogs, cats, rabbits, and other small mammals. With more than 550 full-color images, High-Quality, High-Volume Spay and Neuter and Other Shelter Surgeries provides spay-neuter and shelter veterinarians with information on the most current clinical techniques. Dozens of veterinary experts offer their expert advice and knowledge on perioperative care, surgery instrumentation, infectious disease control, anesthesia protocols, CPR, the fundamentals of HQHVSN, and more. Covers all aspects of common shelter surgeries, including surgical and anesthetic techniques, perioperative procedures, reproductive medicine, and program management Provides coverage of dogs, cats, rabbits, and other small mammals Written by leaders in the field with experience in surgery, medicine, spay-neuter practice, teaching, and research High-Quality, High-Volume Spay and Neuter and Other Shelter Surgeries is an excellent resource for veterinarians, veterinary technicians, and students, as well as clinic and shelter owners. **The Harmonized System A Universal Language for International Trade** World Customs Organization This international goods nomenclature is being used by more than 200 countries and Customs or Economic Unions across the globe and currently regulates almost 98% of world trade. With the new version of the Harmonized System coming into force on 1 January 2007, this Customs Compendium is the perfect guide for those who have a stake in international business affairs today. **Architect's Appointment SAT Basics** Arco Presents a review of math and verbal skills, review questions and answers, study techniques, and a diagnostic test. **Stage 6 Syllabus Earth and Environmental Science : Preliminary and HSC Courses Intelligence for Dummies A Portrait** A portrait of a keen social observer at the center of the last 50 years of cultural life, captured through a vivid selection of O'Brien's own writings on music to fashion to downtown art and, just as importantly and unexpectedly, the political temperature of America.