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### KEY=TO - BRADFORD BRONSON

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**Bow Ties in Risk Management A Concept Book for Process Safety** John Wiley & Sons AN AUTHORITATIVE GUIDE THAT EXPLAINS THE EFFECTIVENESS AND IMPLEMENTATION OF BOW TIE ANALYSIS, A QUALITATIVE RISK ASSESSMENT AND BARRIER MANAGEMENT METHODOLOGY From a collaborative effort of the Center for Chemical Process Safety (CCPS) and the Energy Institute (EI) comes an invaluable book that puts the focus on a specific qualitative risk management methodology – bow tie barrier analysis. The book contains practical advice for conducting an effective bow tie analysis and offers guidance for creating bow tie diagrams for process safety and risk management. Bow Ties in Risk Management clearly shows how bow tie analysis and diagrams fit into an overall process safety and risk management framework. Implementing the methods outlined in this book will improve the quality of bow tie analysis and bow tie diagrams across an organization and the industry. This important guide: Explains the proven concept of bow tie barrier analysis for the preventing and mitigation of incident pathways, especially related to major accidents Shows how to avoid common pitfalls and is filled with real-world examples Explains the practical application of the bow tie method throughout an organization Reveals how to treat human and organizational factors in a sound and practical manner Includes additional material available online Although this book is written primarily for anyone involved with or responsible for managing process safety risks, this book is applicable to anyone using bow tie risk management practices in other safety and environmental or Enterprise Risk Management applications. It is designed for a wide audience, from beginners with little to no background in barrier management, to experienced professionals who may already be familiar with bow ties, their elements, the methodology, and their relation to risk management. The missions of both the CCPS and EI include developing and disseminating knowledge, skills, and good practices to protect people, property and the environment by bringing the best knowledge and practices to industry, academia, governments and the public around the world through collective wisdom, tools, training and expertise. The CCPS has been at the forefront of documenting and sharing important process safety risk assessment methodologies for more than 30 years. The EI's Technical Work Program addresses the depth and breadth of the energy sector, from fuels and fuels distribution to health and safety, sustainability and the environment. The EI program provides cost-effective, value-adding knowledge on key current and future international issues affecting those in the energy sector. **Bow-Tie Industrial Risk Management Across Sectors A Barrier-Based Approach** John Wiley & Sons BOW-TIE INDUSTRIAL RISK MANAGEMENT ACROSS SECTORS Explore an approachable but rigorous treatment of systematic barrier-based approaches to risk management and failure analysis In Bow-Tie Industrial Risk Management Across Sectors: A Barrier-Based Approach, accomplished researcher and author Luca Fiorentini delivers a practical guide to risk management tools, with a particular emphasis on a systematic barrier-based approach called “bow-tie.” The book includes discussions of two barrier-based methods, Bow-Tie and Layers of Protection Analysis (LOPA), for risk assessment, and one barrier-based method for incident analysis, Barrier Failure Analysis (BFA). The author also describes a traditional method–Root Cause Analysis–and three quantitative methods–FMEA/FMECA, Fault Tree (FTA), and Event Tree (ETA) with a discussion about their link with barriers. Written from the ground up to be in full compliance with recent ISO 31000 standards on enterprise risk management, and containing several case studies and examples from a variety of industries, Bow-Tie Industrial Risk Management Across Sectors also contains discussions of international standards dealing with common risks faced by organizations, including occupational health and safety, industrial safety, functional safety, environmental, quality, business continuity, asset integrity, and information security. Readers will also benefit from the inclusion of: A thorough introduction to the Bow-Tie method, including its practical application in risk management workflow from ISO 31000, the history of Bow-Tie, related methods, and the application of Bow-Tie in qualitative and quantitative ways An exploration of Barrier Failure Analysis, including events, timelines, barriers, causation paths, and multi-level causes A practical discussion of how to build a Barrier Failure Analysis, including fact finding, event chaining, identifying barriers, assessing barrier states, causation analysis, and recommendations A concise treatment of Bow-Tie construction workflow, including a step-by-step guide Perfect for engineers and other professionals working in risk management, Bow-Tie Industrial Risk Management Across Sectors: A Barrier-Based Approach will also earn a place in the libraries of advanced undergraduate and graduate students studying risk management and seeking a one-stop reference on the “bow-tie” approach and barrier-based methods. **Risk, Reliability and Safety: Innovating Theory and Practice Proceedings of ESREL 2016 (Glasgow, Scotland, 25-29 September 2016)** CRC Press Risk, Reliability and Safety contains papers describing innovations in theory and practice contributed to the scientific programme of the European Safety and Reliability conference (ESREL 2016), held at the University of Strathclyde in Glasgow, Scotland (25–29 September 2016). Authors include scientists, academics, practitioners, regulators and other key individuals with expertise and experience relevant to specific areas. Papers include domain specific applications as well as general modelling methods. Papers cover evaluation of contemporary solutions, exploration of future challenges, and exposition of concepts, methods and processes. Topics include human factors, occupational health and safety, dynamic and systems reliability modelling, maintenance optimisation, uncertainty analysis, resilience assessment, risk and crisis management. **The Image of the City** MIT Press The classic work on the evaluation of city form. What does the city's form actually mean to the people who live there? What can the city planner do to make the city's image more vivid and memorable to the city dweller? To answer these questions, Mr. Lynch, supported by studies of Los Angeles, Boston, and Jersey City, formulates a new criterion—imageability—and shows its potential value as a guide for the building and rebuilding of cities. The wide scope of this study leads to an original and vital method for the evaluation of city form. The architect, the planner, and certainly the city dweller will all want to read this book. **NGS Newsletter Guidelines for Risk Based Process Safety** John Wiley & Sons Guidelines for Risk Based Process Safety provides guidelines for industries that manufacture, consume, or handle chemicals, by focusing on new ways to design, correct, or improve process safety management practices. This new framework for thinking about process safety builds upon the original process safety management ideas published in the early 1990s, integrates industry lessons learned over the intervening years, utilizes applicable "total quality" principles (i.e., plan, do, check, act), and organizes it in a way that will be useful to all organizations - even those with relatively lower hazard activities - throughout the life-cycle of a company. **The Ashley Book of Knots** London : Faber and Faber **Deepwater Drilling Well Planning, Design, Engineering, Operations, and Technology Application** Gulf Professional Publishing Deepwater Drilling: Well Planning, Design, Engineering, Operations, and Technology Application presents necessary coverage on drilling engineering and well construction through the entire lifecycle process of deepwater wells. Authored by an expert with real-world experience, this book delivers illustrations and practical examples throughout to keep engineers up-to-speed and relevant in today's offshore technology. Starting with pre-planning stages, this reference dives into the rig's elaborate rig and equipment systems, including ROVs, rig inspection and auditing procedures. Moving on, critical drilling guidelines are covered, such as production casing, data acquisition and well control. Final sections cover managed pressure drilling, top and surface hole 'riserless' drilling, and decommissioning. Containing practical guidance and test questions, this book presents a long-awaited resource for today's offshore engineers and managers. Helps readers gain practical experience from an author with over 35 years of offshore field know-how Presents offshore drilling operational best practices and tactics on well integrity for the entire lifecycle of deepwater wells Covers operations and personnel, from emergency response management, to drilling program outlines **Passive Circuit Analysis with LTspice® An Interactive Approach** Springer Nature This book shows readers how to learn analog electronics by simulating circuits. Readers will be enabled to master basic electric circuit analysis, as an essential component of their professional education. The author's approach enables readers to learn theory as needed, then immediately apply it to the simulation of circuits based on that theory, while using the resulting tables, graphs and waveforms to gain a deeper insight into the theory, as well as where theory and practice diverge! **Remote Sensing Image Processing** Morgan & Claypool Publishers Earth observation is the field of science concerned with the problem of monitoring and modeling the processes on the Earth surface and their interaction with the atmosphere. The Earth is continuously monitored with advanced optical and radar sensors. The images are analyzed and processed to deliver useful products to individual users, agencies and public administrations. To deal with these problems, remote sensing image processing is nowadays a mature research area, and the techniques developed in the field allow many real-life applications with great societal value. For instance, urban monitoring, fire detection or flood prediction can have a great impact on economical and environmental issues. To attain such objectives, the remote sensing community has turned into a multidisciplinary field of science that embraces physics, signal theory, computer science, electronics and communications. From a machine learning and signal/image processing point of view, all the applications are tackled under specific formalisms, such as classification and clustering, regression and function approximation, data coding, restoration and enhancement, source unmixing, data fusion or feature selection and extraction. This book covers some of the fields in a comprehensive way. Table of Contents: Remote Sensing from Earth Observation Satellites / The Statistics of Remote Sensing Images / Remote Sensing Feature Selection and Extraction / {Classification / Spectral Mixture Analysis / Estimation of Physical Parameters **The Sumerians Their History, Culture, and Character** University of Chicago Press The Sumerians, the pragmatic and gifted people who preceded the Semites in the land first known as Sumer and later as Babylonia, created what was probably the first high civilization in the history of man, spanning the fifth to the second millenniums B.C. This book is an unparalleled compendium of what is known about them. Professor Kramer communicates his enthusiasm for his subject as he outlines the history of the Sumerian civilization and describes their cities, religion, literature, education, scientific achievements, social structure, and psychology. Finally, he considers the legacy of Sumer to the ancient and modern world. "There are few scholars in the world qualified to write such a book, and certainly Kramer is one of them. . . . One of the most valuable features of this book is the quantity of texts and fragments which are published for the first time in a form available to the general reader. For the layman the book provides a readable and up-to-date introduction to a most fascinating culture. For the specialist it presents a synthesis with which he may not agree but from which he will nonetheless derive stimulation."—American Journal of Archaeology "An uncontested authority on the civilization of Sumer, Professor Kramer writes with grace and urbanity."—Library Journal **Safety Science: Methods to Prevent Incidents and Worker Health Damage at the Workplace** Bentham Science Publishers Risk management is a process through which an organization methodically analyses risks inherent in all of its operational activities with the aim of minimizing damage to physical assets or occupational health hazards. Risk Management, therefore, should be a central element in the management strategy of any organization as it plays a crucial role in giving the organization a sustainable operational advantage. Safety Science: Methods to Prevent Incidents and Worker Health Damage at the Workplace is a handbook for management students and working professionals (safety professionals, human resource managers, insurance officers etc.) interested in the science of risk management and methods to implement safety standards at the workplace. The book introduces readers to the concept of occupational risk and occupational health management. It explains the concepts relevant to these topics such as safety economy valuation and asset integrity management. Assessment tools related to qualitative and quantitative risk management, incident and vulnerability analysis are also provided. Additionally, readers will find information on the human factors and methods to improve human engagement in risk management as well as information about current safety standards and systems in organizations around the world. **The Origin of the Family, Private Property and the State** Verso Books The most influential theory of the origins of women's oppression in the modern era, in a beautiful new edition In this provocative and now-classic work, Frederick Engels explores the interrelated development of the family and the state from ancient society to the Victorian era. Drawing on new anthropological theories of his time, Engels argued that matriarchal communal societies had

been overthrown by class society and its emphasis on private, not communal, property and monogamous, rather than polygamous, sexual organization. This historical development, Engels argued, constituted "the world-historic defeat of the female sex." A masterclass in the application of materialist thought to history and anthropology, and touching on love, monogamy, property, and the development of the human, this landmark work is still foundational in Marxist and socialist feminist theory. **Mein Kampf** Diamond Pocket Books Pvt Ltd 'MEIN KAMPF' is the autobiography of Adolf Hitler gives detailed insight into the mission and vision of Adolf Hitler that shook the world. This book is the merger of two volumes. The first volume of MEIN KAMPF was written while the author was imprisoned in a Bavarian fortress. The book deals with events which brought the author into this blight. It was the hour of Germany's deepest humiliation, when Napoleon has dismembered the old German Empire and French soldiers occupied almost the whole of Germany. The books narrates how Hitler was arrested with several of his comrades and imprisoned in the fortress of Landsberg on the river Lech. During this period only the author wrote the first volume of MEIN KAMPF. The Second volume of MEIN KAMPF was written after release of Hitler from prison and it was published after the French had left the Ruhr, the tramp of the invading armies still echoed in German ears and the terrible ravages had plunged the country into a state of social and economic Chaos. The beauty of the book is, MEIN KAMPF is an historical document which bears the imprint of its own time. Moreover, Hitler has declared that his acts and 'public statements' constitute a partial revision of his book and are to be taken as such. Also, the author has translated Hitler's ideal, the Volkischer Staat, as the People's State. The author has tried his best making German Vocabulary easy to understand. You will never be satisfied until go through the whole book. A must read book, which is one of the most widely circulated and read books worldwide. **Safety-I and Safety-II The Past and Future of Safety Management** Ashgate Publishing, Ltd. Safety has traditionally been defined as a condition where the number of adverse outcomes was as low as possible (Safety-I). From a Safety-I perspective, the purpose of safety management is to make sure that the number of accidents and incidents is kept as low as possible, or as low as is reasonably practicable. This means that safety management must start from the manifestations of the absence of safety and that - paradoxically - safety is measured by counting the number of cases where it fails rather than by the number of cases where it succeeds. This unavoidably leads to a reactive approach based on responding to what goes wrong or what is identified as a risk - as something that could go wrong. Focusing on what goes right, rather than on what goes wrong, changes the definition of safety from 'avoiding that something goes wrong' to 'ensuring that everything goes right'. More precisely, Safety-II is the ability to succeed under varying conditions, so that the number of intended and acceptable outcomes is as high as possible. From a Safety-II perspective, the purpose of safety management is to ensure that as much as possible goes right, in the sense that everyday work achieves its objectives. This means that safety is managed by what it achieves (successes, things that go right), and that likewise it is measured by counting the number of cases where things go right. In order to do this, safety management cannot only be reactive, it must also be proactive. But it must be proactive with regard to how actions succeed, to everyday acceptable performance, rather than with regard to how they can fail, as traditional risk analysis does. This book analyses and explains the principles behind both approaches and uses this to consider the past and future of safety management practices. The analysis makes use of common examples and cases from domains such as aviation, nuclear power production, process management and health care. The final chapters explain the theoretical and practical consequences of the new perspective on the level of day-to-day operations as well as on the level of strategic management (safety culture). Safety-I and Safety-II is written for all professionals responsible for their organisation's safety, from strategic planning on the executive level to day-to-day operations in the field. It presents the detailed and tested arguments for a transformation from protective to productive safety management. **Commerce Business Daily Democracy and Education** Read Books Ltd This antiquarian volume contains a comprehensive treatise on democracy and education, being an introduction to the 'philosophy of education'. Written in clear, concise language and full of interesting expositions and thought-provoking assertions, this volume will appeal to those with an interest in the role of education in society, and it would make for a great addition to collections of allied literature. The chapters of this book include: 'Education as a Necessity of Life'; 'Education as a Social Function'; 'Education as Direction'; 'Education as Growth'; 'Preparation, Unfolding, and Formal Discipline'; 'Education as Conservative and Progressive'; 'The Democratic Conception in Education'; 'Aims in Education', etcetera. We are republishing this vintage book now complete with a new prefatory biography of the author. **A Short Guide to Contract Risk** Gower Publishing, Ltd. Savvy managers use contracts proactively to reach their business goals and minimize their risks. To succeed, these managers need a plan/framework and A Short Guide to Contract Risk provides this. It introduces the notion of contract literacy: a set of skills relevant for all who deal with contracts in their business environment. Arguing that contracts are too important to be left to lawyers alone, this short guide describes lean contracting, visualization and a number of easy-to-use tools that enable managers and lawyers to better understand each others' viewpoints and manage contract risks and opportunities. What makes this short guide from the authors of the acclaimed Proactive Law for Managers especially valuable, if not unique, is its down-to-earth managerial/legal approach. It is about understanding and using legally sound contracts as managerial tools for well thought-out, realistic risk allocation in business deals and relationships. **The Book of the Courtier** Courier Corporation An insider's view of court life during the Renaissance, here is the handiwork of a 16th-century diplomat who was called upon to resolve the differences in a war of etiquette among the Italian nobility. **Frontiers in Ecology and Evolution 2020 Highlights** Frontiers Media SA If nothing else, 2020 reminded us that, whether we like it or not, human society forms part of a broader ecological community that includes species with management challenges. My experience in Melbourne highlighted how environmental threats to humanity are best managed when governments adopt evidence-based strategies (that might also require incentives for human cooperation). Fundamental research, ranging from quantitative natural history to broader insights about ecological and evolutionary processes, invariably forms the backbone of such evidence. The collection of papers in this 2020 Highlights eBook represents a sample of articles in Frontiers in Ecology and Evolution that contribute to our collective wisdom in the discipline and generated sizeable interest among our readers. We hope you also find them interesting. **The 85 Ways to Tie a Tie The Science and Aesthetics of Tie Knots** Broadway Traces the history of the knotted neckcloth from the seventeenth century to the present day, and includes eighty-five ways to tie a tie. **Distinction A Social Critique of the Judgement of Taste** Routledge Examines differences in taste between modern French classes, discusses the relationship between culture and politics, and outlines the strategies of pretension. **PISA Take the Test Sample Questions from OECD's PISA Assessments Sample Questions from OECD's PISA Assessments** OECD Publishing This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment. **Lunar Sourcebook A User's Guide to the Moon** CUP Archive The only work to date to collect data gathered during the American and Soviet missions in an accessible and complete reference of current scientific and technical information about the Moon. **Deep Learning and Practice with MindSpore** Springer Nature This book systematically introduces readers to the theory of deep learning and explores its practical applications based on the MindSpore AI computing framework. Divided into 14 chapters, the book covers deep learning, deep neural networks (DNNs), convolutional neural networks (CNNs), recurrent neural networks (RNNs), unsupervised learning, deep reinforcement learning, automated machine learning, device-cloud collaboration, deep learning visualization, and data preparation for deep learning. To help clarify the complex topics discussed, this book includes numerous examples and links to online resources. **Risk Assessment A Practical Guide to Assessing Operational Risks** John Wiley & Sons Covers the fundamentals of risk assessment and emphasizes taking a practical approach in the application of the techniques Written as a primer for students and employed safety professionals covering the fundamentals of risk assessment and emphasizing a practical approach in the application of the techniques Each chapter is developed as a stand-alone essay, making it easier to cover a subject Includes interactive exercises, links, videos, and downloadable risk assessment tools Addresses criteria prescribed by the Accreditation Board for Engineering and Technology (ABET) for safety programs **An Introduction to Cyber Analysis and Targeting** Springer Nature This book provides a comprehensive view of cyber operations, analysis and targeting, including operational examples viewed through a lens of conceptual models available in current technical and policy literature. Readers will gain a better understanding of how the current cyber environment developed, as well as how to describe it for future defense. The author describes cyber analysis first as a conceptual model, based on well-known operations that span from media to suspected critical infrastructure threats. He then treats the topic as an analytical problem, approached through subject matter interviews, case studies and modeled examples that provide the reader with a framework for the problem, developing metrics and proposing realistic courses of action. Provides first book to offer comprehensive coverage of cyber operations, analysis and targeting; Pulls together the various threads that make up current cyber issues, including information operations to confidentiality, integrity and availability attacks; Uses a graphical, model based, approach to describe as a coherent whole the development of cyber operations policy and leverage frameworks; Provides a method for contextualizing and understanding cyber operations. **Biography of Yamei Kin M.D. (1864-1934), (Also Known as Jin Yunmei), the First Chinese Woman to Take a Medical Degree in the United States (1864-2016), 2nd ed. Extensively Annotated Bio-Bibliography** Soyinfo Center The world's most comprehensive, well documented, and well illustrated book on this subject. With extensive subject and geographical index, 125 photographs and illustrations - mostly color. Free of charge in digital PDF format on Google Books. **Computed Tomography Approaches, Applications, and Operations** Springer Nature This book offers a comprehensive and topical depiction of advances in CT imaging. CT has become a leading medical imaging modality, thanks to its superb spatial and temporal resolution to depict anatomical details. New advances have further extended the technology to provide physiological information, enabling a wide and expanding range of clinical applications. The text covers the latest advancements in CT technology and clinical applications for a variety of CT types and imaging methods. The content is presented in seven parts to offer a structure across a board coverage of CT: CT Systems, CT Performance, CT Practice, Spectral CT, Quantitative CT, Functional CT, and Special Purpose CT. Each contain chapters written by leading experts in the field, covering CT hardware and software innovations, CT operation, CT performance characterization, functional and quantitative applications, and CT systems devised for specific anatomical applications. This book is an ideal resource for practitioners of CT applications in medicine, including physicians, trainees, engineers, and scientists. **Guidelines for Siting and Layout of Facilities** John Wiley & Sons This book has been written to address many of the developments since the 1st Edition which have improved how companies survey and select new sites, evaluate acquisitions, or expand their existing facilities. This book updates the appendices containing both the recommended separation distances and the checklists to help the teams obtain the information they need when locating the facility within a community, when arranging the processes within the facility, and when arranging the equipment within the process units. **Infection Control A Psychosocial Approach to Changing Practice** Radcliffe Publishing Aimed at health and social care professionals at all levels, including practitioners, supervisors and managers, this book helps health workers translate knowledge of safe practice in hygiene and infection control into consistent practice. **Working Towards a Blue Future: Promoting Sustainability, Environmental Protection and Marine Management: Examples from the UK Government Blue Belt Programme and Current International Initiatives** Frontiers Media SA **Day One Routing in Fat Trees Bow Ties in Process Safety and Environmental Management Current Trends and Future Perspectives** CRC Press Bow Ties in Process Safety and Environmental Management: Current Trends and Future Perspectives aims to combine the process safety aspects and the potential dangers to the ecology including the source of the contamination, and especially, the unbalanced utilization of toxic chemicals in process industries. It also covers a broad spectrum of industrial process safety, environmental pollution factors, dangers to land, water, air and living species, remediation technologies (traditional and futuristic approaches), pollutant degradation through numerical modelling, and physicochemical characteristics of the chemicals and their thermal analysis. It also provides the mandated safety data sheets already available and suggestions for the improvement of industrial specifications. Discusses detailed aspects of process safety and environmental impact from a theoretical and practical perspective Covers detailed procedures of environmental modeling concepts Explores forensic investigation sequences during the incident Proposes futuristic approaches towards risk assessment and management Includes real-time case studies with complexities and solutions This book is written for researchers, graduate students, and professionals involved in chemical engineering, environmental engineering, and process safety engineering. **Reducing Construction Costs Uses of Best Dispute Resolution Practices by Project Owners: Proceedings Report** National Academies Press The National Academy of Construction (NAC) has determined that disputes, and their accompanying inefficiencies and costs, constitute a significant problem for the industry. In 2002, the NAC assessed the industry's progress in attacking this problem and determined that although the tools, techniques, and processes for preventing and efficiently resolving disputes are already in place, they are not being widely used. In 2003, the NAC helped to persuade the Center for Construction Industry Studies (CCIS) at the University of Texas and the Alfred P. Sloan Foundation to finance and conduct empirical research to develop accurate information about the relative transaction costs of various forms of dispute resolution. In 2004 the NAC teamed with the Federal Facilities Council (FFC) of the National Research Council to sponsor the "Government/Industry Forum on Reducing Construction Costs: Uses of Best Dispute Resolution Practices by Project Owners." The forum was held on September 23, 2004, at the National Academy of Sciences in Washington, D.C. Speakers and panelists at the forum addressed several topics. Reducing Construction Costs addresses topics such as the root causes of disputes and the impact of disputes on project costs and the economics of the construction industry. A second topic addressed was dispute resolution tools and techniques for preventing, managing,

and resolving construction-related disputes. This report documents examples of successful uses of dispute resolution tools and techniques on some high-profile projects, and also provides ways to encourage greater use of dispute resolution tools throughout the industry. This report addresses steps that owners of construction projects (who have the greatest ability to influence how their projects are conducted) should take in order to make their projects more successful.

**Networks, Crowds, and Markets Reasoning About a Highly Connected World** Cambridge University Press Are all film stars linked to Kevin Bacon? Why do the stock markets rise and fall sharply on the strength of a vague rumour? How does gossip spread so quickly? Are we all related through six degrees of separation? There is a growing awareness of the complex networks that pervade modern society. We see them in the rapid growth of the Internet, the ease of global communication, the swift spread of news and information, and in the way epidemics and financial crises develop with startling speed and intensity. This introductory book on the new science of networks takes an interdisciplinary approach, using economics, sociology, computing, information science and applied mathematics to address fundamental questions about the links that connect us, and the ways that our decisions can have consequences for others.

**Temperature- and Supply Voltage-Independent Time References for Wireless Sensor Networks** Springer This book investigates the possible circuit solutions to overcome the temperature and supply voltage-sensitivity of fully-integrated time references for ultra-low-power communication in wireless sensor networks. The authors provide an elaborate theoretical introduction and literature study to enable full understanding of the design challenges and shortcomings of current oscillator implementations. Furthermore, a closer look to the short-term as well as the long-term frequency stability of integrated oscillators is taken. Next, a design strategy is developed and applied to 5 different oscillator topologies and 1 sensor interface. All 6 implementations are subject to an elaborate study of frequency stability, phase noise and power consumption. In the final chapter all blocks are compared to the state of the art.

**Graphics Processing Unit-Based High Performance Computing in Radiation Therapy** CRC Press Use the GPU Successfully in Your Radiotherapy Practice With its high processing power, cost-effectiveness, and easy deployment, access, and maintenance, the graphics processing unit (GPU) has increasingly been used to tackle problems in the medical physics field, ranging from computed tomography reconstruction to Monte Carlo radiation transport simulation. Graphics Processing Unit-Based High Performance Computing in Radiation Therapy collects state-of-the-art research on GPU computing and its applications to medical physics problems in radiation therapy. Tackle Problems in Medical Imaging and Radiotherapy The book first offers an introduction to the GPU technology and its current applications in radiotherapy. Most of the remaining chapters discuss a specific application of a GPU in a key radiotherapy problem. These chapters summarize advances and present technical details and insightful discussions on the use of GPU in addressing the problems. The book also examines two real systems developed with GPU as a core component to accomplish important clinical tasks in modern radiotherapy. Translate Research Developments to Clinical Practice Written by a team of international experts in radiation oncology, biomedical imaging, computing, and physics, this book gets clinical and research physicists, graduate students, and other scientists up to date on the latest in GPU computing for radiotherapy. It encourages you to bring this novel technology to routine clinical radiotherapy practice.

**Muhammad His Life Based on the Earliest Sources** Acclaimed worldwide as the definitive biography of the Prophet Muhammad in the English language, Martin Lings' Muhammad: His Life Based on the Earliest Sources is unlike any other. Based on Arabic sources of the eighth and ninth centuries, of which some important passages are translated here for the first time, it owes the freshness and directness of its approach to the words of men and women who heard Muhammad speak and witnessed the events of his life. Martin Lings has an unusual gift for narrative. He has adopted a style which is at once extremely readable and reflects both the simplicity and grandeur of the story. The result is a book which will be read with equal enjoyment by those already familiar with Muhammad's life and those coming to it for the first time. Muhammad: His Life Based on the Earliest Sources was given an award by the government of Pakistan, and selected as the best biography of the Prophet in English at the National Seerat Conference in Islamabad in 1983.

**The Night Bus Hero** Hachette UK From Onjali Q. Rauf, the award-winning and best-selling author of The Boy at the Back of the Class, comes another incredible story, told with humour and heart. 'The boy's an absolute menace.' 'He's a bully. A lost cause!' 'Why can't he be more like his sister?' 'I've been getting into trouble for as long I can remember. Usually I don't mind 'cos some of my best, most brilliant ideas have come from sitting in detention. But recently it feels like no one believes me about anything - even when I'm telling the truth! And it's only gotten worse since I played a prank on the old man who lives in the park. Everyone thinks I'm just a bully. They don't believe I could be a hero. But I'm going to prove them all wrong...' Told from the perspective of a bully, this book explores themes of bullying and homelessness, while celebrating kindness, friendship and the potential everyone has to change for the good.