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E56 - KAYLEY KENT

To be able to compete successfully both at national and international levels, production systems and equipment must perform at levels not even thinkable a decade ago. Requirements for increased product quality, reduced throughput time and enhanced operating effectiveness within a rapidly changing customer demand environment continue to demand a high maintenance performance. In some cases, maintenance is required to increase operational effectiveness and revenues and customer satisfaction while reducing capital, operating and support costs. This may be the largest challenge facing production enterprises these days. For this, maintenance strategy is required to be aligned with the production logistics and also to keep updated with the current best practices. Maintenance has become a multidisciplinary activity and one may come across situations in which maintenance is the responsibility of people whose training is not engineering. This handbook aims to assist at different levels of understanding whether the manager is an engineer, a production manager, an experienced maintenance practitioner or a beginner. Topics selected to be included in this handbook cover a wide range of issues in the area of maintenance management and engineering to cater for all those interested in maintenance whether practitioners or researchers. This handbook is divided into 6 parts and contains 26 chapters covering a wide range of topics related to maintenance management and engineering.

The Resonance of Unseen Things offers an ethnographic meditation on the "uncanny" persistence and cultural freight of conspiracy theory. The project is a reading of conspiracy theory as an index of a certain strain of late 20th-century American despondency and malaise, especially as understood by people experiencing downward social mobility. Written by a cultural anthropologist with a literary background, this deeply interdisciplinary book focuses on the enduring American preoccupation with captivity in a rapidly transforming world. Captivity is a trope that appears in both ordinary and fantastic iterations here, and Susan Lepselter shows how multiple troubled histories—of race, class, gender, and power—become compressed into stories of uncanny memory. "We really don't have anything like this in terms of a focused, sympathetic, open-minded ethnographic study of UFO experiences. . . . The author's semiotic approach to the paranormal is immensely productive, positive, and, above all, resonant with what actually happens in history." —Jeffrey J. Kripal, J. Newton Rayzor Professor of Religion, Rice University "Lepselter relates a weave of intimate alien sensibilities in out-of-the-way places which are surprisingly, profoundly, close to home. Readers can expect to share her experience of contact with complex logics of feeling, and to do so in a contemporary America they may have thought they understood." —Deborah Battaglia, Mount Holyoke College "An original and beautifully written study of contemporary American cultural poetics. . . . The book convincingly brings into relief the anxieties of those at the margins of American economic and civic life, their perceptions of state power, and the narrative continuities that bond them to histories of violence and expansion in the American West." —Deirdre de la Cruz, University of Michigan

This pocket guide presents some tried and tested methods for putting impact measurement and accountability into practice throughout the life of a project. It is aimed at humanitarian practitioners, project officers and managers with some experience in the field, and draws on the work of field staff, NGOs, and inter-agency initiatives, including Sphere, ALNAP, HAP International, and People in Aid.

On the tense relations and mutual suspicions between Christians and Muslims.

INSTANT NEW YORK TIMES BESTSELLER "One of the most important books I've ever read—an indispensable guide to thinking clearly about the world." — Bill Gates "Hans Rosling tells the story of 'the secret silent miracle of human progress' as only he can. But Factfulness does much more than that. It also explains why progress is so often secret and silent and teaches readers how to see it clearly." —Melinda Gates "Factfulness by Hans Rosling, an outstanding international public health expert, is a hopeful book about the potential for human progress when we work off facts rather than our inherent biases." — Former U.S. President Barack Obama Factfulness: The stress-reducing habit of only carrying opinions for which you have strong supporting facts. When asked simple questions about global trends—what percentage of the world's population live in poverty; why the world's population is increasing; how many girls finish school—we systematically get the answers wrong. So wrong that a chimpanzee choosing answers at

random will consistently outguess teachers, journalists, Nobel laureates, and investment bankers. In Factfulness, Professor of International Health and global TED phenomenon Hans Rosling, together with his two long-time collaborators, Anna and Ola, offers a radical new explanation of why this happens. They reveal the ten instincts that distort our perspective—from our tendency to divide the world into two camps (usually some version of us and them) to the way we consume media (where fear rules) to how we perceive progress (believing that most things are getting worse). Our problem is that we don't know what we don't know, and even our guesses are informed by unconscious and predictable biases. It turns out that the world, for all its imperfections, is in a much better state than we might think. That doesn't mean there aren't real concerns. But when we worry about everything all the time instead of embracing a worldview based on facts, we can lose our ability to focus on the things that threaten us most. Inspiring and revelatory, filled with lively anecdotes and moving stories, Factfulness is an urgent and essential book that will change the way you see the world and empower you to respond to the crises and opportunities of the future. --- "This book is my last battle in my life--long mission to fight devastating ignorance...Previously I armed myself with huge data sets, eye-opening software, an energetic learning style and a Swedish bayonet for sword-swallowing. It wasn't enough. But I hope this book will be." Hans Rosling, February 2017.

Drawing on the concept of the 'politics of compassion', this Handbook interrogates the political, geopolitical, social and anthropological processes which produce and govern borders and give rise to contemporary border violence.

The emphasis of the manual is on rapid assessment and decision making. The clinical action steps are based on clinical assessment with limited reliance on laboratory or other tests and most are possible in a variety of clinical settings.

Independent legal professionals play a key role in the administration of justice and the protection of human rights. Judges, prosecutors and lawyers need access to information on human rights standards laid down in the main international legal instruments and to related jurisprudence developed by universal and regional monitoring bodies. This publication, which includes a manual and a facilitator's guide, seeks to provide a comprehensive core curriculum on international human rights standards for legal professionals. It includes a CD-ROM containing the full electronic text of the manual in pdf format.

Names in Focus delves deep into the vast field of Finnish onomastics, covering place names, personal names, animal names, commercial names and names in literature. It provides the history and current trends in this area of research, and also supplements international terminology with the Finnish point of view on the subject. Brimming with examples and clear explanations, the book can be enjoyed by the most studious of researchers as well as the casual reader who has a genuine interest in the study of names.

"The Corona crisis and the Need for a Great Reset" is a guide for anyone who wants to understand how COVID-19 disrupted our social and economic systems, and what changes will be needed to create a more inclusive, resilient and sustainable world going forward. Thierry Malleret, founder of the Monthly Barometer, and Klaus Schwab, founder and executive Chairman of the World Economic Forum, explore what the root causes of these crisis were, and why they lead to a need for a Great Reset. Theirs is a worrying, yet hopeful analysis. COVID-19 has created a great disruptive reset of our global social, economic, and political systems. But the power of human beings lies in being foresighted and having the ingenuity, at least to a certain extent, to take their destiny into their hands and to plan for a better future. This is the purpose of this book: to shake up and to show the deficiencies which were manifest in our global system, even before COVID broke out.

Sensor Fusion - Foundation and Applications comprehensively covers the foundation and applications of sensor fusion. This book provides some novel ideas, theories, and solutions related to the research areas in the field of sensor fusion. The book explores some of the latest practices and research works in the area of sensor fusion. The book contains chapters with different methods of sensor fusion for different engineering as well as non-engineering applications. Advanced applications of sensor fusion in the areas of mobile robots, automatic vehicles, airborne threats, agriculture, medical field and intrusion detection are covered in this book. Sufficient evidences and analyses have been provided in the chapter to show the effectiveness of sensor fusion in various applications. This book would serve as an invaluable reference for professionals involved in various applications of sensor fusion.

The European Convention on Human Rights and European Union law provide an increasingly important framework for the protection of the rights of foreigners. European Union legislation relating to asylum, borders and immigration is developing fast. There is an impressive body of case law by the European Court of Human Rights relating in particular to Articles 3, 5, 8 and 13 of the ECHR. The Court of Justice of the European Union is increasingly asked to pronounce itself on the interpretation of European Union law provisions in this field. This handbook presents this European Union legislation and the body of case law by the two European courts in an accessible way. It is intended for legal practitioners, judges, prosecutors, immigration officials and nongovernmental organisations, in the EU and Council of Europe Member States.

A new way of thinking about data science and data ethics that is informed by the ideas of intersectional feminism. Today, data science is a form of power. It has been used to expose injustice, improve health outcomes, and topple governments. But it has also been used to discriminate, police, and surveil. This potential for good, on the one hand, and harm, on the other, makes it essential to ask: Data science by whom? Data science for whom? Data science with whose interests in mind? The narratives around big data and data science are overwhelmingly white, male, and techno-heroic. In Data Feminism, Catherine D'Ignazio and Lauren Klein present a new way of thinking about data science and data ethics—one that is informed by intersectional feminist thought. Illustrating data feminism in action, D'Ignazio and Klein show how challenges to the male/female binary can help challenge other hierarchical (and empirically wrong) classification systems. They explain how, for example, an understanding of emotion can expand our ideas about effective data visualization, and how the concept of invisible labor can expose the significant human efforts required by our automated systems. And they show why the data never, ever "speak for themselves." Data Feminism offers strategies for data scientists seeking to learn how feminism can help them work toward justice, and for feminists who want to focus their efforts on the growing field of data science. But Data Feminism is about much more than gender. It is about power, about who has it and who doesn't, and about how those differentials of power can be challenged and changed.

Human health and well being are closely intertwined with the ability to access affordable and modern domestic energy services, including heating, cooling, lighting, cooking, and information technology. Energy poverty is said to occur when such amenities cannot be secured up to a socially- and physically- necessitated level. Millions of people across the world suffer from energy poverty due to a combination of financial, social and technical circumstances. Energy Poverty and Vulnerability provides novel and critical perspectives on the drivers and consequences of energy-related injustices in the home. Drawing together original research conducted by leading experts, the book offers fresh and innovative insights into the ways in which hitherto unexplored factors such as cultural norms, environmental conditions and household needs combine to shape vulnerability to energy poverty. Case studies from a wide range of countries are presented, thus providing the first globally-integrated account of a policy and research domain that has previously been divided between the Global South and North. An examination of the diverse manifestations of energy poverty is supplemented by an identification of this condition's shared and context-specific causes. Conveying policy-relevant insights that can inform decision-making, this book can be of great interest to students and scholars of energy demand, social justice, and sustainability transitions, as well as decision-makers and practitioners who wish to find out more about this complex issue.

This comprehensive, standard work has been updated to remain an important resource for all those needing detailed knowledge of the theory and applications of vacuum technology. The text covers the existing knowledge on all aspects of vacuum science and technology, ranging from fundamentals to components and operating systems. It features many numerical examples and illustrations to help visualize the theoretical issues, while the chapters are carefully cross-linked and coherent symbols and notations are used throughout the book. The whole is rounded off by a user-friendly appendix of conversion tables, mathematical tools, material related data, overviews of processes and techniques, equipment-related data, national and international standards, guidelines, and much more. As a result, engineers, technicians, and scientists will be able to develop and work successfully with the equipment and environment found in a vacuum.

Vol. 1, Part I: Initiation: Extracellular and Membrane Events; Vol. 2, Part II: Transmission: Effectors and Cytosolic Events; Vol. 3, Part

III: Transcription and Translation: Nuclear and Cytoplasmic Events; Vol. 3, Part IV: Signaling From Intracellular Compartments; Vol. 3, Part V: Cell-Cell and Cell-Matrix Interactions; Vol. 3, Part VI: DISEASE PATHOPHYSIOLOGY: Translational Implications.

Wireless sensor networks (WSN) are predicted to play a key role in future technological developments like the internet of things. Already they are beginning to be used in many applications not only in the scientific and industrial domains. One of the biggest challenges, when using WSN, is to fuse and evaluate data from different sensor nodes. Synchronizing the data acquisition of the nodes is a key enabling factor for this. So far research has been focused on synchronizing the clocks of the nodes, largely neglecting the implications for the actual measurement results. This thesis investigates the relation between synchronization accuracy and quality of measurement results. Two different classes of time synchronous data acquisition are investigated: event detection and waveform sampling. A model is developed that describes a WSN as a generic multi-channel data acquisition system, thus enabling direct comparison to other existing systems. With the help of this model it is shown, that synchronization accuracy should best be expressed as uncertainty of the acquired timing information. This way, not only the contribution of the synchronization to the overall measurement uncertainty can be assessed, but also the synchronization accuracy required for an application can be estimated. The insights from the uncertainty analysis are used to develop two distinct approaches to synchronous data acquisition: a proactive and a reactive one. It is shown that the reactive approach can also be used to efficiently implement synchronous angular sampling, i.e. data acquisition synchronous to the rotation of a machine's shaft. Furthermore, testing methods are suggested, that evaluate the synchronized data acquisition of an existing WSN as a whole. These methods can be applied to other data acquisition systems without changes, thus enabling direct comparisons. The practical realization of a WSN is described, on which the developed data acquisition methods have been implemented. All implementations were thoroughly tested in experiments, using the suggested testing methods. This way it was revealed, that a system's interrupt handling procedures may have a strong influence on the data acquisition. Furthermore, it was shown that the effective use of fixed-point arithmetic enables synchronous angular sampling in real-time during a streaming measurement. Finally, two application examples are used to illustrate the utility of the implemented data acquisition: the acoustic localization of two sensor nodes on a straight line and a simple order tracking at an induction motor test bench. Diese Dissertation untersucht die Zusammenhänge zwischen Synchronisationsgenauigkeit und Qualität der Messergebnisse. Zwei Klassen von zeitsynchroner Datenerfassung werden dabei betrachtet: die Detektion von Ereignissen und die Aufnahme von Kurvenformen. Es wird ein Modell entwickelt, welches ein WSN als ein allgemeines mehrkanaliges Datenerfassungssystem beschreibt. Dies ermöglicht den direkten Vergleich zwischen WSN und anderen Messsystemen. Weiter wird mit Hilfe des Modells gezeigt, dass die Synchronisationsgenauigkeit vorzugsweise als Unsicherheit der Zeitinformation angegeben werden sollte. Hierdurch kann nicht nur der Beitrag der Synchronisation zur gesamten Messunsicherheit bestimmt sondern auch die von einer Anwendung tatsächlich benötigte Synchronisationsgenauigkeit abgeschätzt werden. Ausgehend von den durch die Unsicherheitsbetrachtung gewonnenen Erkenntnissen werden ein proaktiver und ein reaktiver Ansatz zur synchronen Datenaufnahme entwickelt. Mit dem reaktiven Ansatz können Messdaten auch effizient drehwinkelsynchron, d. h. synchron zur Drehbewegung einer Maschinenwelle, aufgenommen werden. Es werden Testverfahren vorgeschlagen, mit denen sich die Synchronizität der Datenerfassung für ein WSN als Ganzes überprüfen lässt. Diese Verfahren lassen sich unverändert auf andere Messsysteme anwenden und ermöglichen somit direkte Vergleiche. Es wird die praktische Umsetzung eines WSN beschrieben, auf dem die entwickelten Methoden zur Datenerfassung implementiert wurden. Alle Implementierungen wurden mit den vorgeschlagenen Testverfahren untersucht. Hierdurch konnte gezeigt werden, dass die Interrupt-Bearbeitung der Sensorknoten entscheidenden Einfluss auf die Messdatenerfassung hat. Weiter konnte durch den Einsatz von Fixed-Punkt-Arithmetik die drehwinkelsynchrone Datenerfassung in Echtzeit realisiert werden. Schließlich wird die Nützlichkeit der implementierten Datenerfassung an zwei Anwendungen gezeigt: der akustischen Ortung zweier Sensorknoten sowie einer einfachen Ordnungsanalyse.

Two billion people live in countries where development outcomes are affected by fragility, conflict and violence. The World Bank estimates that by 2030, up to two-thirds of the global extreme poor will be living in fragile and conflict-affected situations, making it evident that without intensified action, global poverty goals will not be met. Evaluation - like development aid itself - can unintentionally exacerbate tensions in ways that negatively affect conflict-affected populations if care is not taken to develop and integrate conflict sensitivity into the evaluation's design and approaches. This book is a guide to designing, managing and conducting evaluations in fragile and conflict-affected contexts. Such contexts may present challenges for evaluation that, if not properly addressed or mitigated, can adversely affect the validity and results of the evaluation. Mitigating these challenges can entail sig-

nificant effort, and can sometimes require redefining the direction, purpose or scope of the evaluation. This book is an initiative of IDEAS. It builds upon the knowledge and practical experience of evaluation professionals of various organizations and regions, thus showing a diversity of perspectives and experiences. Hur Hassnain provided overall leadership and management in writing and developing the book. The book's co-authors were Anupam Anand, Inga-Lill Aronsson, Sarah Davies, Gabrielle Duffy, Lauren Kelly, Wanda Krause, Keiko Kuji-Shikatani, Marco Lorenzoni, Rhianon McHugh, Emma Rotondo, Wendy Rowe, Simona Somma, Melinda Sutherland and Serge Eric Yakeu. Reviews and Endorsements: - This book is both important and timely. Use the wisdom and insights in this book to enhance your work on behalf of all of us. Michael Quinn Patton, Utilization-Focused Evaluation & Blue Marble Evaluation - Many of the elements included in this book will have an immediate purpose in strengthening the work of my own evaluation function at the WFP. Andrea Cook, World Food Programme - This publication is a welcome initiative reminding development practitioners that during conflicts and pandemics and in fragile circumstances in general, M&E matter more than ever. Marvin Taylor-Dormond, Asian Development Bank - The wealth of examples from the field, combined with the extensive review of applicable evaluation methods will be found invaluable by both new and experienced evaluators. Michael Bamberger - I encourage development practitioners to read this guidance. Fragility and conflict are among the most serious hurdles to achieving the 2030 Agenda and the SDGs. Fabrizio Felloni, International Fund for Agricultural Development - This book provides useful advice from the early stages of understanding power and conflict to the final stages of reporting findings, with practical information about choosing methods and protecting staff and communities. Patricia Rogers, BetterEvaluation - This is an important, useful book to produce good-quality evidence while making real-world choices along the way about costs, data, rigour and methods. Jyotsna Puri, IFAD - I highly recommend it. Linda Morra Imas, IPDET - I invite all VOPES to disseminate and promote the use of this book. Silvia Salinas Mulder, IOCE - This book is a great resource. Asela Kalugampitiya - This book is an important step in enhancing our repertoire for designing and conducting meaningful evaluations in challenging contexts defined by FCV. Juha I. Uitto, Global Environment Facility - This book is essential for all evaluators, especially, YEEs. Khalil Bitar - This book fulfils a long-standing need to provide technical insights on conducting evaluations in contexts of fragility, conflict and violence. Marco Segone, United Nations Population Fund & EvalPartners

Ranging from the theoretical basis of UWB sensors via implementation issues to applications, this much-needed book bridges the gap between designers and appliers working in civil engineering, biotechnology, medical engineering, robotic, mechanical engineering, safety and homeland security. From the contents: * History * Signal and systems in time and frequency domain * Propagation of electromagnetic waves (in frequency and time domain) * UWB-Principles * UWB-antennas and applicators * Data processing * Applications

Globally, women are facing social, economic, and cultural barriers impeding their autonomy and agency. Accelerated women empowerment programs often fail to attain their targets as envisaged by the policymakers due to a variety of reasons, with the most prominent being the deep-rooted cultural norms ingrained within society. In the era of globalization, empowerment of women demands new approaches and strategies that encourage the mainstreaming of gender equality as a societal norm. The Handbook of Research on New Dimensions of Gender Mainstreaming and Women Empowerment is a critical scholarly publication that examines global gender issues and new strategies for the promotion of women empowerment and gender mainstreaming in various spheres of women's lives, including education and ICT, economic participation, health and sexuality, mental health, aging, law and judiciary, leadership, and decision making. It provides a comprehensive coverage of all major gender issues with novel ideas on gender mainstreaming being contributed by men and women authors from multidisciplinary backgrounds. Gender perspective and intersectional approach in the discourses make this handbook a unique contribution to the scholarship of social sciences and humanities. The book provides new theoretical inputs and practical directions to academicians, sociologists, social workers, psychologists, managers, lawyers, policy makers, and government officials in their efforts at gender mainstreaming. With a wide range of conceptual richness, this handbook is an excellent reference guide to students and researchers in programs pertaining to gender/women's studies, cultural studies, economics, sociology, social work, medicine, law, and management.

Maps are a fundamental resource in a diverse array of applications ranging from everyday activities, such as route planning through the legal demarcation of space to scientific studies, such as those seeking to understand biodiversity and inform the design of nature reserves for species conservation. For a map to have value, it should provide an accurate and timely representation of the phenomenon depicted and this can be a challenge in a dynamic world. Fortunately, mapping activities have benefitted greatly from recent advances in geoinformation technologies. Satellite remote sensing, for example, now offers unparalleled data acquisi-

tion and authoritative mapping agencies have developed systems for the routine production of maps in accordance with strict standards. Until recently, much mapping activity was in the exclusive realm of authoritative agencies but technological development has also allowed the rise of the amateur mapping community. The proliferation of inexpensive and highly mobile and location aware devices together with Web 2.0 technology have fostered the emergence of the citizen as a source of data. Mapping presently benefits from vast amounts of spatial data as well as people able to provide observations of geographic phenomena, which can inform map production, revision and evaluation. The great potential of these developments is, however, often limited by concerns. The latter span issues from the nature of the citizens through the way data are collected and shared to the quality and trustworthiness of the data. This book reports on some of the key issues connected with the use of citizen sensors in mapping. It arises from a European Co-operation in Science and Technology (COST) Action, which explored issues linked to topics ranging from citizen motivation, data acquisition, data quality and the use of citizen derived data in the production of maps that rival, and sometimes surpass, maps arising from authoritative agencies.

Compliant mechanisms and actuators are growing in importance due to their benefits in robotics, medical technology, sensor applications, or in handling compressible objects. This book helps to understand the mechanical behavior of compliant systems. Suggested classifications and different modeling methods are shown that allow for the description of compliant systems.

The challenge of population aging requires innovative approaches to meet the needs of increasing numbers of older people. Emerging information and communication technologies (ICTs), such as pervasive computing and ambient assistive technology, have considerable potential for enhancing the quality of life of many older people by providing additional safety and security while also supporting mobility, independent living, and social participation. The proposed book will be a landmark publication in the area of technology and aging that will serve as a statement of the current state-of-the-art and as a pointer to directions for future research and emerging technologies, products, and services.

The bestselling textbook to understanding health research, updated and expanded Research Methods in Health Promotion provides students and practitioners with essential knowledge and skills regarding the design, implementation, analysis, and interpretation of research in the field of health promotion. Now in its second edition, this bestselling textbook has been updated with more recent research methodologies and additional information on sampling, participatory and survey research, and qualitative data analysis. The entire research process is covered, with specific points relating to both qualitative and quantitative research. By breaking the daunting process of research into simple and well-defined steps, this user-friendly text encourages students to think about research as a sequential process and provides explanations that facilitate better understanding of each step in the research process. A separate set of chapters cover the more quantitative methodological areas including designs, measurement, sampling, and data analysis in depth, giving readers the understanding they need to apply in practice. This book also provides applied chapters that illustrate the practical aspects of the research process, along with other critical information including grant writing and scientific writing. Evaluate the ethics, design, analysis, and interpretation of research Identify and understand the key components of research studies Analyze and interpret the results of experimental and survey research designs Understand the process of publishing a research report and constructing a grant proposal Research Methods in Health Promotion is ideal for both undergrad and graduate methods courses in health promotion and public health.

Updated in its 3rd edition, Basic Methods of Policy Analysis and Planning presents quickly applied methods for analyzing and resolving planning and policy issues at state, regional, and urban levels. Divided into two parts, Methods which presents quick methods in nine chapters and is organized around the steps in the policy analysis process, and Cases which presents seven policy cases, ranging in degree of complexity, the text provides readers with the resources they need for effective policy planning and analysis. Quantitative and qualitative methods are systematically combined to address policy dilemmas and urban planning problems. Readers and analysts utilizing this text gain comprehensive skills and background needed to impact public policy.

This open access book is the first major publication on the topic of "Interdisciplinary Mathematics Education" and arose from the work of the first International Topic Study Group of the same name at the ICME-13 conference in Hamburg in 2016. It offers extensive theoretical insights, empirical research, and practitioner accounts of interdisciplinary mathematics work in STEM and beyond (e.g. in music and the arts). Scholars and practitioners from four continents contributed to this comprehensive book, and present studies on: the conceptualizations of interdisciplinarity; implementation cases at schools and tertiary institutions; teacher education; and implications for policy and practice. Each chapter, and the book itself, closes with an assessment of the most significant aspects that those involved in policy and practice, as well as future researchers, should take into account.

No es imaginable, en la actualidad, la existencia de una industria

moderna sin un completo sistema de instrumentación y control. La medición de los distintos parámetros que intervienen en un proceso de fabricación o transformación industrial es básica para obtener un control directo sobre los productos y poder mejorar su calidad y competitividad. Así pues, el conocimiento del funcionamiento de los instrumentos de medición y de control, y su papel dentro del proceso que intervienen, es básico para quienes desarrollan su actividad profesional dentro de este campo, como por ejemplo el jefe u operador del proceso, el proyectista, el técnico en instrumentos, el estudiante, etc. A todos ellos se dedica este libro (que en su primera edición fue galardonado en los 'Premios Mundo Electrónico') en el que, en distintos capítulos y de forma ordenada y didáctica, sin grandes alardes matemáticos (aunque sí se necesita una base mínima para comprender algunos aspectos), se trata de los términos y códigos empleados en instrumentación, transmisores, medición y control de presión, caudal, nivel, temperatura y otras variables, elementos finales de control, control automático, control por ordenador, instrumentos inteligentes, errores y calibración de instrumentos, aplicaciones y, finalmente, se dedica un apéndice a los principios básicos del análisis dinámico de los instrumentos.

The first all-inclusive reference on sensors in industry and science! Finally -- a current and comprehensive guide to commercially available sensors that will help engineers, scientists, and technicians pinpoint the optimum sensor for any given application, enabling you to check the specs for your required component more easily and more reliably than ever! Also features: specific advice on selecting and using the optimum sensor for any given application; full descriptions of hands-on applications in various industries; and practical insights on how to ensure more flexible control via sensors.

Focuses on digital violence and discrimination, cybercrime, digital transformation, and practices and studies related to digital violence. The book introduces and guides users through current best practices, laboratory methods, policies, protocols, and more within international digital violence and discrimination.

Waste: A Handbook for Management, Second Edition, provides information on a wide range of hot topics and developing areas, such as hydraulic fracturing, microplastics, waste management in developing countries, and waste-exposure-outcome pathways. Beginning with an overview of the current waste landscape, including green engineering, processing principles and regulations, the book then outlines waste streams and treatment methods for over 25 different types of waste and reviews best practices and management, challenges for developing countries, risk assessment, contaminant pathways and risk tradeoffs. With an overall focus on waste recovery, reuse, prevention and lifecycle analysis, the book draws on the experience of an international team of expert contributors to provide reliable guidance on how best to manage wastes for scientists, managers, engineers and policymakers in both the private and public sectors. Covers the assessment and treatment of different waste streams in a single book Provides a hands-on report on each type of waste problem as written by an expert in the field Highlights new findings and evolving problems in waste management via discussion boxes

European Convention on Human Rights - Article 10 - Freedom of expression 1. Everyone has the right to freedom of expression. This right shall include freedom to hold opinions and to receive and impart information and ideas without interference by public

authority and regardless of frontiers. This article shall not prevent States from requiring the licensing of broadcasting, television or cinema enterprises. 2. The exercise of these freedoms, since it carries with it duties and responsibilities, may be subject to such formalities, conditions, restrictions or penalties as are prescribed by law and are necessary in a democratic society, in the interests of national security, territorial integrity or public safety, for the prevention of disorder or crime, for the protection of health or morals, for the protection of the reputation or rights of others, for preventing the disclosure of information received in confidence, or for maintaining the authority and impartiality of the judiciary. In the context of an effective democracy and respect for human rights mentioned in the Preamble to the European Convention on Human Rights, freedom of expression is not only important in its own right, but it also plays a central part in the protection of other rights under the Convention. Without a broad guarantee of the right to freedom of expression protected by independent and impartial courts, there is no free country, there is no democracy. This general proposition is undeniable. This handbook is a practical tool for legal professionals from Council of Europe member states who wish to strengthen their skills in applying the European Convention on Human Rights and the case law of the European Court of Human Rights in their daily work.

This volume summarizes the state-of-the-art technologies, key advances and future trends in the field of label-free biosensing. It provides detailed insights into the different types of solid-state, label-free biosensors, their underlying transducer principles, advanced materials utilized, device-fabrication techniques and various applications. The book offers graduate students, academic researchers, and industry professionals a comprehensive source of information on all facets of label-free biosensing and the future trends in this flourishing field. Highlights of the subjects covered include label-free biosensing with: · semiconductor field-effect devices such as nanomaterial-modified capacitive electrolyte-insulator-semiconductor structures, silicon nanowire transistors, III-nitride semiconductor devices and light-addressable potentiometric sensors · impedimetric biosensors using planar and 3D electrodes · nanocavity and solid-state nanopore devices · carbon nanotube and graphene/graphene oxide biosensors · electrochemical biosensors using molecularly imprinted polymers · biomimetic sensors based on acoustic signal transduction · enzyme logic systems and digital biosensors based on the biocomputing concept · heat-transfer as a novel transducer principle · ultrasensitive surface plasmon resonance biosensors · magnetic biosensors and magnetic imaging devices

Oceanography and Marine Biology: An Annual Review remains one of the most cited sources in marine science and oceanography. The ever increasing interest in work in oceanography and marine biology and its relevance to global environmental issues, especially global climate change and its impacts, creates a demand for authoritative reviews summarizing the results of recent research. This volume covers topics that include resting cysts from coastal marine plankton, facilitation cascades in marine ecosystems, and the way that human activities are rapidly altering the sensory landscape and behaviour of marine animals. Guidelines for contributors, including information on illustration requirements, can be downloaded on the Downloads/Updates tab on the books webpage. For more than 50 years, OMBAR has been an essential reference for research workers and students in all

fields of marine science. From Volume 57 a new international Editorial Board ensures global relevance, with editors from the UK, Ireland, Canada, Australia and Singapore. The series volumes find a place in the libraries of not only marine laboratories and institutes, but also universities. Chapters 3, 4, 5 and 7 of this book are freely available as a downloadable Open Access PDF under a Creative Commons Attribution-Non Commercial-No Derivatives 4.0 license. The links can be found on the book's Routledge web page at <https://www.routledge.com//9780367134150>

Written by two of the most respected, experienced and well-known researchers and developers in the field (e.g., Kiencke worked at Bosch where he helped develop anti-breaking system and engine control; Nielsen has lead joint research projects with Scania AB, Mecel AB, Saab Automobile AB, Volvo AB, Fiat GM Powertrain AB, and DaimlerChrysler. Reflecting the trend to optimization through integrative approaches for engine, driveline and vehicle control, this valuable book enables control engineers to understand engine and vehicle models necessary for controller design and also introduces mechanical engineers to vehicle-specific signal processing and automatic control. Emphasis on measurement, comparisons between performance and modelling, and realistic examples derive from the authors' unique industrial experience. The second edition offers new or expanded topics such as diesel-engine modelling, diagnosis and anti-jerking control, and vehicle modelling and parameter estimation. With only a few exceptions, the approaches

The Multi-Country Study, which began in 1997, aims to: Obtain reliable estimates of the prevalence of violence against women in different countries throughout the world, in a consistent, standardized manner which will allow for inter-country comparisons; Document the association between domestic violence against women and a range of health outcomes; Identify risk and protective factors for domestic violence against women, and compare them between settings; Explore and compare the coping strategies used by women experiencing domestic violence; Use the findings nationally and internationally to advocate for an increased response to domestic and sexual violence against women.

"World Health Organization, London School of Hygiene and Tropical Medicine, South African Medical Research Council"--Title page.

Mathematics is the music of science, and real analysis is the Bach of mathematics. There are many other foolish things I could say about the subject of this book, but the foregoing will give the reader an idea of where my heart lies. The present book was written to support a first course in real analysis, normally taken after a year of elementary calculus. Real analysis is, roughly speaking, the modern setting for Calculus, "real" alluding to the field of real numbers that underlies it all. At center stage are functions, defined and taking values in sets of real numbers or in sets (the plane, 3-space, etc.) readily derived from the real numbers; a first course in real analysis traditionally places the emphasis on real-valued functions defined on sets of real numbers. The agenda for the course: (1) start with the axioms for the field of real numbers, (2) build, in one semester and with appropriate rigor, the foundations of calculus (including the "Fundamental Theorem"), and, along the way, (3) develop those skills and attitudes that enable us to continue learning mathematics on our own. Three decades of experience with the exercise have not diminished my astonishment that it can be done.

Health Sciences & Professions