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**KEY=DIGITAL - MICHAEL FARMER**

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## X-Ray Equipment Maintenance and Repairs Workbook for Radiographers and Radiological Technologists

[World Health Organization](#) *The X-ray equipment maintenance and repairs workbook is intended to help and guide staff working with, and responsible for, radiographic equipment and installations in remote institutions where the necessary technical support is not available, to perform routine maintenance and minor repairs of equipment to avoid break downs. The book can be used for self study and as a checklist for routine maintenance procedures.*

## World Investment Report 2020

## International Production Beyond the Pandemic

[United Nations](#) *The 30th edition of the World Investment Report looks at the prospects for foreign direct investment and international production during and beyond the global crisis triggered by the COVID-19 (coronavirus) pandemic. The Report not only projects the immediate impact of the crisis on investment flows, but also assesses how it could affect a long-term structural transformation of international production. The theme chapter of the Report reviews the evolution of international production networks over the past three decades and examines the configuration of these networks today. It then projects likely course changes for the next decade due to the combined effects of the pandemic and pre-existing megatrends, including the new industrial revolution, the sustainability imperative and the retreat of laissez faire policies. The system of international production underpins the economic growth and development prospects of most countries around the world. Governments worldwide will need to adapt their investment and development strategies to a changing international production landscape. At the request of the UN General Assembly, the Report has added a dedicated section on investment in the Sustainable Development Goals, to review global progress and propose possible courses of action.*

## Recommendations on the Transport of Dangerous Goods: Model ...

## Big Data and Global Trade Law

[Cambridge University Press](#) *An exploration of the current state of global trade law in the era of Big Data and AI. This title is also available as Open Access on Cambridge Core.*

## Manual of Tests and Criteria

*The Manual of Tests and Criteria contains criteria, test methods and procedures to be used for classification of dangerous goods according to the provisions of Parts 2 and 3 of the United Nations Recommendations on the Transport of Dangerous Goods, Model Regulations, as well as of chemicals presenting physical hazards according to the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). As a consequence, it supplements also national or international regulations which are derived from the United Nations Recommendations on the Transport of Dangerous Goods or the GHS. At its ninth session (7 December 2018), the Committee adopted a set of amendments to the sixth revised edition of the Manual as amended by Amendment 1. This seventh revised edition takes account of these amendments. In addition, noting that the work to facilitate the use of the Manual in the context of the GHS had been completed, the Committee considered that the reference to the "Recommendations on the Transport of Dangerous Goods" in the title of the Manual was no longer appropriate, and decided that from now on, the Manual should be entitled "Manual of Tests and Criteria".*

## Adapting to the Digital Trade Era

## Challenges and Opportunities

*This study looks at how the rapid adoption of digital technologies could help developing countries increase their participation in world trade. It also reviews the role that domestic policies and international cooperation can play in creating a more prosperous and inclusive future for these countries. This publication marks the conclusion of the second phase of the WTO Chairs Programme (WCP), which aims to support and promote trade-related academic activities by universities and research institutions in developing and least-developed countries. The book brings together contributions from WCP chairholders, Advisory Board members, the WCP team at the WTO and other WTO Secretariat staff. The WCP is an important part of the WTO's efforts to build trade capacity and to work jointly with academic institutions in developing countries. Academic institutions awarded WTO Chairs receive support in the areas of curriculum development, research and outreach activities. The chairholders are selected through a competitive process. Fourteen institutions were originally selected as WTO Chairs for a four-year term in 2009. Seven institutions were added to the Programme in 2014. This publication consists of two volumes. The first volume, Overview and One-Page Case Summaries, contains a one-page summary for each identified GATT dispute, recording all relevant steps and documents, and indexes the information by relevant parties, agreements and provisions. The second volume, Dispute Settlement Procedures compiles for the first time all GATT dispute settlement procedures, as well as a selection of other key documents of historical interest.*

## Ultrasound Elastography

[MDPI](#) *The comparison between methods, evaluation of portal hypertension and many other questions are still open issues in liver elastography. New elastographic applications are under evaluation and close to being used in clinical practice. Strain imaging has been incorporated into many disciplines and EFSUMB guidelines are under preparation. More research is necessary for improved evidence for clinical applications in daily practice. The Special Issue published papers on recent advances in development and application of Ultrasound Elastography.*

## Advances in Autism Research

## Volume 2

[MDPI](#) *This book represents one of the most up-to-date collections of articles on clinical practice and research in the field of Autism Spectrum Disorders (ASD). The scholars who contributed to this book are experts in their field, carrying out cutting edge research in prestigious institutes worldwide (e.g., Harvard Medical School, University of California, MIND Institute, King's College, Karolinska Institute, and many others). The book addressed many topics, including (1) The COVID-19 pandemic; (2) Epidemiology and prevalence; (3) Screening and early behavioral markers; (4) Diagnostic and phenotypic profile; (5) Treatment and intervention; (6) Etiopathogenesis (biomarkers, biology, and genetic, epigenetic, and risk factors); (7) Comorbidity; (8) Adulthood; and (9) Broader Autism Phenotype (BAP). This book testifies to the complexity of performing research in the field of ASD. The published contributions underline areas of progress and ongoing challenges in which more certain data is expected in the coming years. It would be desirable that experts, clinicians, researchers, and trainees could have the opportunity to read this updated text describing the challenging heterogeneity of Autism Spectrum Disorder.*

## Global Value Chains Development Report

*Global value chains (GVCs) break up the production process so that different steps can be carried out in different countries. Many smart phones and televisions, for example, are designed in the United States or Japan. They have sophisticated inputs, such as semiconductors and processors, which are produced in Korea or Taiwan Province of China. And they are assembled in China. They are then marketed and receive after-sale servicing in Europe and the United States. These complex global production arrangements have transformed the nature of trade. But their complexity has also created difficulties in understanding trade and in formulating policies that allow firms and governments to capitalize on GVCs and to mitigate negative side effects. This publication provides a detailed map of GVCs, enabling policymakers to have a better understanding of the ongoing development and evolution of GVCs and the relationship between economic development and GVC participation. Copublished with the World Bank, OECD, IDE-JETRO, and the Research Center for Global Value Chain Research. The joint research undertaken by these organizations aims to synthesize the parties' knowledge and expertise on GVC studies and to contribute to better policymaking by the international community.*

## Diagnosis of Neurogenetic Disorders: Contribution of Next Generation Sequencing and Deep Phenotyping

**MDPI** The contribution of genomic variants to the aetiopathogenesis of both paediatric and adult neurological disease is being increasingly recognized. The use of next-generation sequencing has led to the discovery of novel neurodevelopmental disorders, as exemplified by the deciphering developmental disorders (DDD) study, and provided insight into the aetiopathogenesis of common adult neurological diseases. Despite these advances, many challenges remain. Correctly classifying the pathogenicity of genomic variants from amongst the large number of variants identified by next-generation sequencing is recognized as perhaps the major challenge facing the field. Deep phenotyping (e.g., imaging, movement analysis) techniques can aid variant interpretation by correctly classifying individuals as affected or unaffected for segregation studies. The lack of information on the clinical phenotype of novel genetic subtypes of neurological disease creates limitations for genetic counselling. Both deep phenotyping and qualitative studies can capture the clinical and patient's perspective on a disease and provide valuable information. This Special Issue aims to highlight how next-generation sequencing techniques have revolutionised our understanding of the aetiology of brain disease and describe the contribution of deep phenotyping studies to a variant interpretation and understanding of natural history.

## Pediatric Hepatology and Liver Transplantation

**Springer** This book is the first to provide balanced examination of both pediatric liver disease and liver transplantation – two topics that are inherently related, given that most chronic liver disorders eventually require organ replacement. The different forms of liver disease encountered in the pediatric age group are first discussed in a series of disease-specific chapters that have a reader-friendly, uniform structure covering pathophysiology, diagnostic and treatment algorithms, clinical cases, and transition to adult care. Key topics in the field of liver transplantation are then addressed. Examples include indications and contraindications, surgical techniques and complications, immunosuppression, in pediatric liver transplantation, acute and chronic rejection and allograft dysfunction, and CMV and EBV infection in transplant recipients, long-term graft injury and tolerance. A section on pediatric hepatology across the world includes chapters presenting the features and management of pediatric liver disease in South-America, Africa and Asia. A closing section considers what the future holds for pediatric liver disease and its management, including novel genetic testing, cell therapy and gene therapy. *Pediatric Hepatology and Liver Transplantation* will be of value for a range of practitioners, from residents making their first approach to pediatric liver disease through to specialists working in transplantation centers.

## Services in Global Value Chains

## Manufacturing-Related Services

**World Scientific** This compilation of 22 firm-specific case studies is an important contribution to the discussion of 'servicification' trends in manufacturing. 'Services have increased in importance and value in many manufacturing value chains, making companies that produce physical products look more like service enterprises. What services do global value chains use in their operations, how important are they and how do economic policies shape firms' configurations, operations, and location of global value chains? This book addresses these questions and more. The interviewed firms, based in 12 APEC economies, come from different sectors ranging from multinational automotive, construction equipment, and electrical appliance manufacturers to small and medium manufacturers of watches or chemical for water treatment. The book analyses what specific services are important in different stages of the value chain, and whether they are typically provided in-house or outsourced. Contents: Manufacturing-Related Services (Patrick Low and Gloria O Pasadilla) Manufacturing of Aircraft Control Systems in the Philippines (Andre Wirjo and Gloria O Pasadilla) Industrial Welding Services in Thailand (William Haines) Manufacturing of Mining and Construction Equipment (David Sit and Patrick Low) Manufacturing of Computer Servers (Yuhua Zhang) Wastewater Treatment Services (Arian Hassani and Andre Wirjo) Manufacturing of Automotive Components in the ASEAN Region (Denise Cheung) Manufacturing of Oil and Gas Industry Equipment in Singapore (Andre Wirjo and Gloria O Pasadilla) Car Manufacturing in the Philippines (Sherry Stephenson) Manufacturing of Thermal Power Generation Equipment (Gloria O Pasadilla) Production of Precision Die and Machine Parts in Thailand (Denise Cheung and Andre Wirjo) Manufacturing of Refrigerators (David Sit) Watch Manufacturing (Deborah Elms) Manufacturing of Automotive Components in Mexico: Perspectives from Three Firms (Andre Wirjo, Gloria O Pasadilla and Joel G Bassig) Manufacturing of Telecommunications Equipment (Huani Zhu and Gloria O Pasadilla) Manufacturing of Printed Circuit Boards in Canada (Ben Shepherd) Wine Industry in Chile (Karina Fernandez-Stark and Penny Bamber) Integrated Logistics Solutions Provider in Mexico (Andre Wirjo and Gloria O Pasadilla) Remanufacturing Services in the Construction Machinery Value Chain (Katherine Tait and Gary Gereffi) Manufacturing of Consumer Electronic Appliances in Indonesia (Emmanuel A San Andres) Fresh Cherry Industry in Chile (Penny Bamber and Karina Fernandez-Stark) Readership: Researchers, students and academics who are interested in international trade; trade economists; policymakers and general public who are interested in manufacturing related topics.

## Key Advances in Clinical Informatics

## Transforming Health Care through Health Information Technology

**Academic Press** Key Advances in Clinical Informatics: Transforming Health Care through Health Information Technology provides a state-of-the-art overview of the most current subjects in clinical informatics. Leading international authorities write short, accessible, well-referenced chapters which bring readers up-to-date with key developments and likely future advances in the relevant subject areas. This book encompasses topics such as inpatient and outpatient clinical information systems, clinical decision support systems, health information technology, genomics, mobile health, telehealth and cloud-based computing. Additionally, it discusses privacy, confidentiality and security required for health data. Edited by internationally recognized authorities in the field of clinical informatics, the book is a valuable resource for medical/nursing students, clinical informaticists, clinicians in training, practicing clinicians and allied health professionals with an interest in health informatics. Presents a state-of-the-art overview of the most current subjects in clinical informatics. Provides summary boxes of key points at the beginning of each chapter to impart relevant messages in an easily digestible fashion Includes internationally acclaimed experts contributing to chapters in one accessible text Explains and illustrates through international case studies to show how the evidence presented is applied in a real world setting

## Measuring the Information Economy 2002

**OECD Publishing** With over 80 indicators based on the most up-to-date official statistics, this study provides a comprehensive international comparison of OECD Member countries' performance in the information economy.

## Popular Photography

## World Trade Report 2020

The 2020 World Trade Report analyses how digital technologies are transforming global commerce and international trade cooperation. It examines in particular how trade is likely to evolve in the coming 10 to 15 years as a result of digital technologies, such as 3D printing, artificial intelligence and blockchain. Case studies will provide concrete examples of how companies are already using new technologies to streamline their operations. The report will also include contributions from academics and leading experts on how they see digital technologies having an impact on the future of trade and the nature of trade cooperation.

## Constructivism

## Theory, Perspectives, and Practice, Second Edition

**Teachers College Press** This enduring bestseller remains the most comprehensive examination of constructivism and its relationship to teaching and learning. Closing the gap between theory and practice, well-known scholars make constructivism accessible by showing its application in everyday classrooms. Building on the success of the first edition, the authors have completely updated this popular text and expanded its scope to include examples of constructivist teaching across all grade levels and disciplines. An ambitious revision of a now classic text, *Constructivism: Theory, Perspectives, and Practice, Second Edition* is an invaluable resource for practicing teachers, teacher educators, and curriculum specialists in mathematics, science, social studies, and language arts. New for the Second Edition! An updated theory section that adds further contemporary biological evidence to go beyond the theories of Piaget and Vygotsky—offering a more contemporary framework for a psychological theory of learning. New chapters reflecting the school-based reforms that have been initiated since the writing of the first edition—specifically addressing the changes in mathematics, social studies, and teacher education. A new chapter on the emerging field of disability studies—including a critique that unmask current practices and assumptions that better serve schools rather than students and their families. Contributors: Paul Cobb • Susan Cowey • Rheta DeVries • Eleanor Duckworth • Dewey I. Dykstra, Jr. • George Forman • Catherine Twomey Fosnot • Catherine A. Franklin • June S. Gould • Maxine Greene • Candace Julyan • Randall Stewart Perry • D. Kim Reid • Deborah Schifter • Jan Weatherly Valle • Ernst von Glasersfeld • Betty Zan. Praise for the First Edition! "Provides the reader with many ways of connecting to the central ideas of constructivism . . . highly readable." —*Gifted Child Quarterly* "Shows how constructivist theory can inform classroom practices, and . . . provides teachers with a deeper understanding that gives substance to the rhetoric of school reform." —*Journal of Curriculum Studies*

## Batteries in a Portable World

## A Handbook on Rechargeable Batteries for Non-engineers

Ec & M Books

## My Sleep Log

When your doctor wants to know how you sleep. This is your log.

## Information Systems Design and Intelligent Applications

## Proceedings of Fourth International Conference INDIA 2017

**Springer** The book is a collection of high-quality peer-reviewed research papers presented at International Conference on Information System Design and Intelligent Applications (INDIA 2017) held at Duy Tan University, Da Nang, Vietnam during 15-17 June 2017. The book covers a wide range of topics of computer science and information technology discipline ranging from image processing, database application, data mining, grid and cloud computing, bioinformatics and many others. The various intelligent tools like swarm intelligence, artificial intelligence, evolutionary algorithms, bio-inspired algorithms have been well applied in different domains for solving various challenging problems.

## Radar Instruction Manual

Since 1958 the Maritime Administration has continuously conducted instructions in use of collision avoidance radar for qualified U.S. seafaring personnel and representatives of interested Federal and State Agencies. Beginning in 1963, to facilitate the expansion of training capabilities and at the same time to provide the most modern techniques in training methods, radar simulators were installed in Maritime Administration's three region schools. It soon became apparent that to properly instruct the trainees, even with the advanced equipment, a standardize up-to-date instruction manual was needed. The first manual was later revised to serve both as a classroom textbook and as an onboard reference handbook. This newly updated manual, the fourth revision, in keeping with Maritime Administration policy, has been restructured to include improved and more effective methods of plotting techniques for use in Ocean, Great Lakes, Coastwise and Inland Waters navigation. Robert J. Blackwell Assistant Secretary for Maritime Affairs

## Vestibular Migraine and Related Syndromes

**Springer** This book provides a multidisciplinary approach to vestibular migraine and related syndromes in which dizziness is the most predominant feature. Starting from the neurological point of view, the pathophysiology, classification, neurophysiology and therapy of migraine are discussed. Readers will learn how to recognize and properly treat vestibular migraine, which is often undiagnosed or misdiagnosed as Ménière's syndrome (a form of vertigo characterized by vertigo spells and hearing loss that presents comorbidity with migraine) or benign paroxysmal positional vertigo (in which patients experience brief episodes of vertigo, lasting from seconds to 1 minute, when they move their heads in a certain way). The described diagnostic and therapeutic strategies include the newest, state of the art approaches. Further aspects of migraine that are considered include hyperexcitability in the brain and the triad of migraine, dizziness and anxiety. In addition, the imaging of migraine, and of vestibular migraine in particular, is discussed and clinical records are reported. Vestibular Migraine and Related Syndromes is based on the practical and clinical experiences of an authoritative group of well-known neurologists, ENT specialists and neuro-otologists. It provides neurologists with a complete overview of relevant clinical features, otolaryngologists with clear descriptions of clinical aspects and the pathophysiology of migraine and radiologists with guidance on the role of imaging techniques.

## The Cambridge International Handbook of Lean Production

## Diverging Theories and New Industries around the World

**Cambridge University Press** This handbook focuses on two sides of the lean production debate that rarely interact. On the one hand, management and industrial engineering scholars have presented a positive view of lean production as the epitome of efficiency and quality. On the other hand, sociology, industrial relations, and labor relations scholars focus on work speedups, management by stress, trade union positions, and self-exploitation in lean teams. The editors of this volume understand the merits of both views and present them accordingly, bridging the gaps among five disciplines and presenting the best of each perspective. Chapters by internationally acclaimed authors examine the positive, negative and neutral possible effects of lean, providing a global view of lean production while adjusting lean to the cultural and political contexts of different nation-states. As the first multi-lens view of lean production from academic and consultant perspectives, this volume charts a way forward in the world of work and management in our global economy.

## Futuristic Trends in Network and Communication Technologies

## First International Conference, FTNCT 2018, Solan, India, February 9–10, 2018,

## Revised Selected Papers

**Springer** This book constitutes the refereed proceedings of the First International Conference on Futuristic Trends in Network and Communication Technologies, FTNCT 2018, held in Solan, India, in February 2018. The 37 revised full papers presented were carefully reviewed and selected from 239 submissions. The prime aim of the conference is to invite researchers from different domains of network and communication technologies to a single platform to showcase their research ideas. The selected papers are organized in topical sections on communication technologies, Internet of Things (IoT), network technologies, and wireless networks.

## Popular Photography

## Proceedings of the 21st International Symposium on Advancement of Construction

## Management and Real Estate

**Springer** This book presents the proceedings of CRIOCM\_2016, 21st International Conference on Advancement of Construction Management and Real Estate, sharing the latest developments in real estate and construction management around the globe. The conference was organized by the Chinese Research Institute of Construction Management (CRIOCM) working in close collaboration with the University of Hong Kong. Written by international academics and professionals, the proceedings discuss the latest achievements, research findings and advances in frontier disciplines in the field of construction management and real estate. Covering a wide range of topics, including building information modelling, big data, geographic information systems, housing policies, management of infrastructure projects, occupational health and safety, real estate finance and economics, urban planning, and sustainability, the discussions provide valuable insights into the implementation of advanced construction project management and the real estate market in China and abroad. The book is an outstanding reference resource for academics and professionals alike.

## Analog Circuits Cookbook

**Elsevier** Analog Circuits Cookbook is a collection of tried and tested recipes from the masterchef of analog and RF design. Based on articles from Electronics World, this book provides a diet of high quality design techniques and applications, and proven circuit designs, all concerned with the analog, RF and interface fields of electronics. Ian Hickman uses illustrations and examples rather than tough mathematical theory to present a wealth of ideas and tips based on his own workbench experience. This second edition includes 10 of Hickman's latest articles, alongside 20 of his most popular classics. The new material includes articles on power supplies, filters using negative resistance, phase noise and video surveillance systems. Essential reading for all circuit design professionals and advanced hobbyists. Contains 10 of Ian Hickman's latest articles, alongside 20 of his most popular classics

## Leading Pharmaceutical Operational Excellence

## Outstanding Practices and Cases

**Springer Science & Business Media** Achieving operational excellence is a challenge for the pharmaceutical industry, with many companies setting successful examples time and again. This book presents such leading practices for managing operational excellence throughout the pharmaceutical industry. Based on the St.Gallen OPEX Model the authors describe the current status of OPEX and the future challenges that have to be dealt with. The ample theoretical background is complemented hand-in-hand by case studies contributed by authors from leading pharmaceutical companies.

## The History of Technologic Advancements in Urology

**Springer** This text explores the history and development of the many technologies that have led to how we treat contemporary urologic problems. From the development of the cystoscope, the advances in laparoscopy, the birth of the field of endourology, to the era of robotics today, urologists have pushed the envelope in technologic innovation. The editors highlight the development of the cystoscope and the early tools used to treat ureteral stones, the development of ureteroscopy, and the applications of lasers and shock wave lithotripsy in the treatment of urolithiasis. Furthermore, they explore the history of minimally invasive treatments in urologic oncology from the story behind the first laparoscopic nephrectomy, the application of hand-assisted technology to the development of robotics and percutaneous treatment approaches (radiofrequency ablation and cryoablation). As the field of urology continues to evolve, urologists will continue to look to the future with the recent applications of histotripsy and regenerative medicine. This text chronicles the creativity, innovation and discovery of the developments of the instruments that allow to practice urology today, as well as glimpse what the future of urology holds.

## A World Trade Organization for the 21st Century

### The Asian Perspective

**Edward Elgar Publishing** Policy makers will benefit from the expert knowledge and policy lessons presented in this book, and development economists and researchers will profit from its critical examination of the world trading system. Undergraduate and postgraduate students

### Digital Synesthesia

## A Model for the Aesthetics of Digital Art

**Walter de Gruyter GmbH & Co KG** Die Publikation versammelt die Ergebnisse des künstlerischen Forschungsprojekts DIGITAL SYNESTHESIA (2013-2016) und stellt erstmals ein umfassendes Kompendium zum Begriff der "Digitalen Synästhesie" dar. "Digitale Synästhesie" umfasst ein völlig neues Konzept der digitalen Künste im 21. Jahrhundert, das die multimediale, auf dem binären Code basierende Ästhetik der digitalen Kunst mit der Multimodalität von Synästhesie als Wahrnehmungsform verbindet. Unter dem Begriff "Digital Synesthesia" geben die Herausgeberinnen diesem neuen Phänomen nicht nur einen Namen. Texte renommierter Medien- und Kunsttheoretiker, Medienkünstler und Neurowissenschaftler vermitteln spannende Einsichten in die Erforschung der synästhetischen Wahrnehmungsmöglichkeiten von multimedialen digitalen Kunstwerken.

## OECD Guide to Measuring the Information Society 2011

**OECD Publishing** This Guide to Measuring the Information Society is a compilation of concepts, definitions, classifications and methods for information society measurement and analysis.

## Color and Colorimetry. Multidisciplinary Contributions

### Bariatric and Metabolic Surgery

## Indications, Complications and Revisional Procedures

**Springer** This book describes the surgical bariatric procedures most frequently performed worldwide and examines their evolution in recent years both within Italy and internationally. For each operation, indications, the surgical technique, potential complications, and the outcomes with respect to weight and obesity-associated comorbidities are presented. In view of the significant failure rate revealed by studies on the long-term results of bariatric surgery, the problem of weight regain and revision surgery are also discussed in detail, covering the different types of revision, conversion to other procedures, and the main outcomes. In addition, individual chapters focus on selected topics of importance. The role of bariatric surgery in the cure of type 2 diabetes ("diabetes surgery") is discussed and the debate over the significance of gastroesophageal reflux disease and hiatal hernia for choice of procedure is summarized. Finally, the most common endoluminal procedures, which have been gaining in importance, are described and other bariatric operations, outlined.

## Nitride Semiconductor Light-Emitting Diodes (LEDs)

### Materials, Technologies and Applications

**Woodhead Publishing** The development of nitride-based light-emitting diodes (LEDs) has led to advancements in high-brightness LED technology for solid-state lighting, handheld electronics, and advanced bioengineering applications. Nitride Semiconductor Light-Emitting Diodes (LEDs) reviews the fabrication, performance, and applications of this technology that encompass the state-of-the-art material and device development, and practical nitride-based LED design considerations. Part one reviews the fabrication of nitride semiconductor LEDs. Chapters cover molecular beam epitaxy (MBE) growth of nitride semiconductors, modern metalorganic chemical vapor deposition (MOCVD) techniques and the growth of nitride-based materials, and gallium nitride (GaN)-on-sapphire and GaN-on-silicon technologies for LEDs. Nanostructured, non-polar and semi-polar nitride-based LEDs, as well as phosphor-coated nitride LEDs, are also discussed. Part two covers the performance of nitride LEDs, including photonic crystal LEDs, surface plasmon enhanced LEDs, color tuneable LEDs, and LEDs based on quantum wells and quantum dots. Further chapters discuss the development of LED encapsulation technology and the fundamental efficiency droop issues in gallium indium nitride (GaInN) LEDs. Finally, part three highlights applications of nitride LEDs, including liquid crystal display (LCD) backlighting, infrared emitters, and automotive lighting. Nitride Semiconductor Light-Emitting Diodes (LEDs) is a technical resource for academics, physicists, materials scientists, electrical engineers, and those working in the lighting, consumer electronics, automotive, aviation, and communications sectors. Reviews fabrication, performance, and applications of this technology that encompass the state-of-the-art material and device development, and practical nitride-based LED design considerations Covers the performance of nitride LEDs, including photonic crystal LEDs, surface plasmon enhanced LEDs, color tuneable LEDs, and LEDs based on quantum wells and quantum dots Highlights applications of nitride LEDs, including liquid crystal display (LCD) backlighting, infra-red emitters, and automotive lighting

## The Second World Ocean Assessment

### World Ocean Assessment II

The second World Ocean Assessment is a collaborative effort of hundreds of experts from all regions of the world, a comprehensive and integrated assessment of the state of marine environment.

## Advances in Human Factors in Training, Education, and Learning Sciences

### Proceedings of the AHFE 2020 Virtual Conference on Human Factors in Training, Education, and Learning Sciences, July 16-20, 2020, USA

**Springer** This book addresses the importance of human factors in optimizing the learning and training process. It reports on the latest research and best practices, and discusses key principles of behavioral and cognitive science, which are extremely relevant to the design of instructional content and new technologies to support mobile and multimedia learning, virtual training and web-based learning, among others, as well as performance measurements, social and adaptive learning and many other types of educational technology, with a special emphasis on those important in the corporate, higher education, healthcare and military training contexts. Gathering contributions to the AHFE 2020 Virtual Conference on Human Factors in Training, Education, and Learning Sciences, held on July 16-20, 2020, the book offers a timely perspective on the role of human factors in education. It highlights important new approaches and ideas, and fosters new discussions on how to optimally design learning experiences.

# World Ocean Assessment

Cambridge University Press

## P-W-R Manual

### Cadmium Telluride Quantum Dots

#### Advances and Applications

*CRC Press* In the last two decades, semiconductor quantum dots—small colloidal nanoparticles—have garnered a great deal of scientific interest because of their unique properties. Among nanomaterials, CdTe holds special technological importance as the only known II–VI material that can form conventional p–n junctions. This makes CdTe very important for the development of novel optoelectronic devices such as light-emitting diodes, solar cells, and lasers. Moreover, the demand for water-compatible light emitters and the most common biological buffers give CdTe quantum dots fields a veritable edge in biolabeling and bioimaging. *Cadmium Telluride Quantum Dots: Advances and Applications* focuses on CdTe quantum dots and addresses their synthesis, assembly, optical properties, and applications in biology and medicine. It makes for a very informative reading for anyone involved in nanotechnology and will also benefit those scientists who are looking for a comprehensive account on the current state of quantum dot-related research.