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**Measuring Ocean Currents** Antony Joseph 2013-08-12 *Measuring Ocean Currents: Tools, Technologies, and Data* covers all major aspects of ocean current measurements in view of the implications of ocean currents on changing climate, increasing pollution levels, and offshore engineering activities. Although more than 70% of the Earth is covered by ocean, there is limited information on the countless fine- to large-scale water motions taking place within them. This book fills that information gap as the first work that summarizes the state-of-the-art methods and instruments used for surface, subsurface, and abyssal ocean current measurements. Readers of this book will find a wealth of information on Lagrangian measurements, horizontal mapping, imaging, Eulerian measurements, and vertical profiling techniques. In addition, the book describes modern technologies for remote measurement of ocean currents and their signatures, including HF Doppler radar systems, satellite-borne sensors, ocean acoustic tomography, and more. Crucial aspects of ocean currents are described in detail as well, including dispersion of effluents discharged into the sea and transport of beneficial materials—as well as environmentally hazardous materials—from one region to another. The book highlights several important practical applications, showing how measurements relate to climate change and pollution levels, how they affect coastal and offshore engineering activities, and how they can aid in tsunami detection. Coverage of measurement, mapping and profiling techniques Descriptions of technologies for remote measurement of ocean currents and their signatures Reviews crucial aspects of ocean currents, including special emphasis on the planet-spanning thermohaline circulation, known as the ocean's "conveyor belt," and its crucial role in climate change

**Radar Energy Warfare and the Challenges of Stealth Technology** Bahman Zohuri 2020-03-18 This book provides a solid foundation for understanding radar energy warfare and stealth technology. The book covers the fundamentals of radar before moving on to more advanced topics, including electronic counter and electronic counter-counter measures, radar absorbing materials, radar cross section, and the science of stealth technology. A final section provides an introduction to Luneberg lens reflectors. The book will provide scientists, engineers, and students with valuable guidance on the fundamentals needed to understand state-of-the-art radar energy warfare and stealth technology research and applications.

**Electronics Engineer's Reference Book** L. W. Turner 2013-10-22 *Electronics Engineer's Reference Book, 4th Edition* is a reference book for electronic engineers that reviews the knowledge and techniques in electronics engineering and covers topics ranging from basics to materials and components, devices, circuits, measurements, and applications. This edition is comprised of 27 chapters; the first of which presents general information on electronics engineering, including terminology, mathematical equations, mathematical signs and symbols, and Greek alphabet and symbols. Attention then turns to the history of electronics; electromagnetic and nuclear radiation; the influence of the ionosphere and the troposphere on the propagation of radio waves; and basic electronic circuits. The reader is also introduced to devices such as electron valves and tubes, integrated circuits, and solid-state devices. The remaining chapters focus on other areas of electronics engineering, including sound and video recording; electronic music and radio astronomy; and applications of electronics in weather forecasting, space exploration, and education. This book will be of value to electronics engineers and professionals in other engineering disciplines, as well as to scientists, students, management personnel, educators, and readers with a general interest in electronics and their applications.

**Computer and Computing Technologies in Agriculture XI** Daoliang Li 2019-01-09 The two volumes IFIP AICT 545 and 546 constitute the refereed post-conference proceedings of the 11th IFIP WG 5.14 International Conference on Computer and Computing Technologies in Agriculture, CCTA 2017, held in Jilin, China, in August 2017. The 100 revised papers included in the two volumes were carefully reviewed and selected from 282 submissions. They cover a wide range of interesting theories and applications of information technology in agriculture. The papers focus on four topics: Internet of Things and big data in agriculture, precision agriculture and agricultural robots, agricultural information services, and animal and plant phenotyping for agriculture.

**Radar Engineering** Raju 2013-12-30 This book contains the applications of radars, fundamentals and advanced concepts of CW, CW Doppler, FMCW, Pulsed doppler, MTI, MST and phased array radars etc. It also includes effect of different parameters on radar operation, various losses in radar systems, radar transmitters, radar receivers, navigational aids and radar antennas. Key features : Nine chapters exclusively suitable for one semester course in radar engineering. More than 100 solved problems. More than 1000 objective questions with answers. More than 600 multiple choice questions with answers. Five model question papers. Logical and self-understandable system description.

**Intelligent Systems in Industrial Applications** Martin Stettinger 2021-02-03 This book presents a selection of papers from the industrial track of ISMIS 2020. The selection emphasizes broad applicability of artificial intelligence (AI) technologies in various industrial fields. The aim of the book is to fertilize preliminary ideas of readers on the application of AI by means of already successfully implemented application examples. Furthermore, the development of new ideas and concepts shall be motivated by the variety of different application examples. The spectrum of the presented contributions ranges from education and training, industrial applications in production and logistics to the development of new approaches in basic research, which will further expand the possibilities of future applications of AI in industrial settings. This broad spectrum gives readers working in the industrial as well as the academic field a good overview of the state of the art in the field of methodologies for intelligent systems.

**Basic Training Program in RADAR Speed Measurement** United States. National Highway Traffic Safety Administration 1983

**Hydroclimatology** Marlyn L. Shelton 2009 A graduate textbook on the interdisciplinary significance of hydroclimatology, explaining the relationship between the climate system and the hydrologic cycle.

**Proceedings of the Second International Conference on Mechatronics and Automatic Control** Wego Wang 2015-08-03 This book examines mechatronics and automatic control systems. The book covers important emerging topics in signal processing, control theory, sensors, mechatronic manufacturing systems and automation. The book presents papers from the second International Conference on Mechatronics and Automatic Control Systems held in Beijing, China on September 20-21, 2014. Examines how to improve productivity through the latest advanced technologies Covering new systems and techniques in the broad field of mechatronics and automatic control systems

**Radar in Meteorology** David Atlas 2015-03-30 This fully illustrated volume covers the history of radar meteorology, deals with the issues in the field from both the operational and the scientific viewpoint, and looks ahead to future issues and how they will affect the current atmosphere. With over 200 contributors, the volume is a product of the entire community and represents an unprecedented compendium of knowledge in the field.

**Numerical Weather and Climate Prediction** Thomas Tomkins Warner 2010-12-02 This textbook provides a comprehensive yet accessible treatment of weather and climate prediction, for graduate students, researchers and professionals. It teaches the strengths, weaknesses and best practices for the use of atmospheric models. It is ideal for the many scientists who use such models across a wide variety of applications. The book describes the different numerical methods, data assimilation, ensemble methods, predictability, land-surface modeling, climate modeling and downscaling, computational fluid-dynamics models, experimental designs in model-based research, verification methods, operational prediction, and special applications such as air-quality modeling and flood prediction. This volume will satisfy everyone who needs to know about atmospheric modeling for use in research or operations. It is ideal both as a textbook for a course on weather and climate prediction and as a reference text for researchers and professionals from a range of backgrounds: atmospheric science, meteorology, climatology, environmental science, geography, and geophysical fluid mechanics/dynamics.

**NOAA Technical Memorandum ERL NSSL**. United States. National Oceanic and Atmospheric Administration 1982

**Introduction to Instrumentation and Measurements** Robert B. Northrop 2018-09-03 Weighing in on the growth of innovative technologies, the adoption of new standards, and the lack of educational development as it relates to current and emerging applications, the third edition of *Introduction to Instrumentation and Measurements* uses the authors' 40 years of teaching experience to expound on the theory, science, and art of modern instrumentation and measurements (I&M). What's New in This Edition: This edition includes material on modern integrated circuit (IC) and photonic sensors, micro-electro-mechanical (MEM) and nano-electro-mechanical (NEM) sensors, chemical and radiation sensors, signal conditioning, noise, data interfaces, and basic digital signal processing (DSP), and upgrades every chapter with the latest advancements. It contains new material on the designs of micro-electro-mechanical (MEMS) sensors, adds two new chapters on wireless instrumentation and microsensors, and incorporates extensive biomedical examples and problems. Containing 13 chapters, this third edition: Describes sensor dynamics, signal conditioning, and data display and storage Focuses on means of conditioning the analog outputs of various sensors Considers noise and coherent interference in measurements in depth Covers the traditional topics of DC null methods of measurement and AC null measurements Examines Wheatstone

and Kelvin bridges and potentiometers Explores the major AC bridges used to measure inductance, Q, capacitance, and D Presents a survey of sensor mechanisms Includes a description and analysis of sensors based on the giant magnetoresistive effect (GMR) and the anisotropic magnetoresistive (AMR) effect Provides a detailed analysis of mechanical gyroscopes, clinometers, and accelerometers Contains the classic means of measuring electrical quantities Examines digital interfaces in measurement systems Defines digital signal conditioning in instrumentation Addresses solid-state chemical microsensors and wireless instrumentation Introduces mechanical microsensors (MEMS and NEMS) Details examples of the design of measurement systems Introduction to Instrumentation and Measurements is written with practicing engineers and scientists in mind, and is intended to be used in a classroom course or as a reference. It is assumed that the reader has taken core EE curriculum courses or their equivalents.

**Computing Technologies and Applications** Latesh Malik 2021-11-10 Making use of digital technology for social care is a major responsibility of the computing domain. Social care services require attention for ease in social systems, e-farming, and automation, etc. Thus, the book focuses on suggesting software solutions for supporting social issues, such as health care, learning about and monitoring for disabilities, and providing technical solutions for better living. Technology is enabling people to have access to advances so that they can have better health. To undergo the digital transformation, the current processes need to be completely re-engineered to make use of technologies like the Internet of Things (IoT), big data analytics, artificial intelligence, and others. Furthermore, it is also important to consider digital initiatives in tandem with their cloud strategy instead of treating them in isolation. At present, the world is going through another, possibly even stronger revolution: the use of recent computing models to perform complex cognitive tasks to solve social problems in ways that were previously either highly complicated or extremely resource intensive. This book not only focuses the computing technologies, basic theories, challenges, and implementation but also covers case studies. It focuses on core theories, architectures, and technologies necessary to develop and understand the computing models and their applications. The book also has a high potential to be used as a recommended textbook for research scholars and post-graduate programs. The book deals with a problem-solving approach using recent tools and technology for problems in health care, social care, etc. Interdisciplinary studies are emerging as both necessary and practical in universities. This book helps to improve computational thinking to "understand and change the world". It will be a link between computing and a variety of other fields. Case studies on social aspects of modern societies and smart cities add to the contents of the book to enhance book adoption potential. This book will be useful to undergraduates, postgraduates, researchers, and industry professionals. Every chapter covers one possible solution in detail, along with results.

**Computer Vision and Imaging in Intelligent Transportation Systems** Robert P. Loce 2017-03-20 Acts as single source reference providing readers with an overview of how computer vision can contribute to the different applications in the field of road transportation This book presents a survey of computer vision techniques related to three key broad problems in the roadway transportation domain: safety, efficiency, and law enforcement. The individual chapters present significant applications within those problem domains, each presented in a tutorial manner, describing the motivation for and benefits of the application, and a description of the state of the art. Key features: Surveys the applications of computer vision techniques to road transportation system for the purposes of improving safety and efficiency and to assist law enforcement. Offers a timely discussion as computer vision is reaching a point of being useful in the field of transportation systems. Available as an enhanced eBook with video demonstrations to further explain the concepts discussed in the book, as well as links to publicly available software and data sets for testing and algorithm development. The book will benefit the many researchers, engineers and practitioners of computer vision, digital imaging, automotive and civil engineering working in intelligent transportation systems. Given the breadth of topics covered, the text will present the reader with new and yet unconceived possibilities for application within their communities.

**Basic Training Program in RADAR Speed Measurement** 1985

**Modern Inertial Technology** Anthony Lawrence 2012-12-06 A description of the inertial technology used for guidance, control, and navigation, discussing in detail the principles, operation, and design of sensors, gyroscopes, and accelerometers, as well as the advantages and disadvantages of particular systems. An engineer with long practical experience in the field, the author elucidates such recent developments as fibre-optic gyroscopes, solid-state accelerometers, and the global positioning system. This will be of interest to researchers and practising engineers involved in systems engineering, aeronautics, space research, and navigation on both land and sea.

**Monthly Catalogue, United States Public Documents** 1983

**Advances in Urban Engineering and Management Science Volume 2** Rashwan Khalil 2022-12-12 **Advances in Urban Engineering and Management Science** contains the selected papers resulting from the 2022 3rd International Conference on Urban Engineering and Management Science (ICUEMS 2022). Covering a wide range of topics, the Proceedings of ICUEMS 2022 presents the latest developments in: (i) Architecture and Urban Planning (Architectural design and its theory, Urban planning and design, Building technology science, Urban protection and regeneration, Urban development strategy, Ecological construction and intelligent control, Sustainable infrastructure); (ii) Logistics and supply chain management (Warehousing and distribution, Logistics outsourcing, Logistics automation, Production and material flow, Supply chain management technology, Supply chain risk management, Global service supply chain management, Supply Chain Planning and Inventory Management, Coordination and collaboration of supply chain networks, Governance and regulatory aspects affecting supply chain management); (iii) Urban traffic management (Smart grid management, Belt and Road Development, Intelligent traffic analysis and planning management, Big data and transportation management). The Proceedings of ICUEMS 2022 will be useful to professionals, academics, and Ph.D. students interested in the above-mentioned fields. Emphasis was put on basic methodologies, scientific development and engineering applications. ICUEMS 2022 is to provide a platform for experts, scholars, engineers and technical researchers engaged in the related fields of urban engineering management to share scientific research achievements and cutting-edge technologies, understand academic development trends, broaden research ideas, strengthen academic research and discussion, and promote the industrialization cooperation of academic achievements. Experts, scholars, business people and other relevant personnel from universities and research institutions at home and abroad are cordially invited to attend and exchange.

**High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations** National Academies of Sciences, Engineering, and Medicine 2018-07-12 Commercially significant amounts of crude oil and natural gas lie under the continental shelf of the United States. Advances in locating deposits, and improvements in drilling and recovery technology, have made it technically and economically feasible to extract these resources under harsh conditions. But extracting these offshore petroleum resources involves the possibility, however remote, of oil spills, with resulting damage to the ocean and the coastline ecosystems and risks to life and limb of those performing the extraction. The environmental consequences of an oil spill can be more severe underwater than on land because sea currents can quickly disperse the oil over a large area and, thus, cleanup can be problematic. Bolted connections are an integral feature of deep-water well operations. High-Performance Bolting Technology for Offshore Oil and Natural Gas Operations summarizes strategies for improving the reliability of fasteners used in offshore oil exploration equipment, as well as best practices from other industrial sectors. It focuses on critical bolting – bolts, studs, nuts, and fasteners used on critical connections.

**Moving the Stars** Peter Maria Schuster 2005

**Global Satellite Meteorological Observation (GSMO) Applications** Stoj e Dimov Il ev 2018-12-05 This book presents principal structures of space systems functionality of meteorological networks, media and applications for modern remote sensing, transmission systems, meteorological ground and users segments and transferring weather data from satellite to the ground infrastructures and users. The author presents techniques and different modes of satellite image interpretation, type of satellite imagery, spectral imaging properties, and enhancement of imaging technique, geo-location and calibration, atmospheric and surface phenomena. Several satellite meteorological applications are introduced including common satellite remote sensing applications, weather analysis, warnings and prediction, observation and measurements of meteorological variables, atmosphere and surface applications, ocean and coastal applications, land, agriculture and forestry applications, and maritime and aviation satellite weather applications. The author also covers ground segment and user segment in detail. The final chapter looks to the future, covering possible space integrations in meteorological and weather observation. This is a companion book of *Global Satellite Meteorological Observation Theory* (Springer), which provides the following topics: Evolution of meteorological observations and history satellite meteorology Space segment with satellite orbits and meteorological payloads Analog and digital transmission, type of modulations and broadcasting systems Atmospheric radiation, satellite meteorological parameters and instruments Meteorological antenna systems and propagation

**Intelligent Road Transport Systems** Yunpeng Wang 2022 In recent years, the application of intelligent transportation systems (ITS) has steadily expanded, and has become a hot spot of common interest to universities, scientific research institutes, enterprises and institutions in the transportation field. ITS is the product of the deep integration of modern high-tech in the transportation industry, and its development has accompanied that of modern high-tech. ITS is now also becoming part of the Internet of Things (IoT), and is expected to contribute significantly to making our cities smarter and connecting with other infrastructure. Although there are many monographs and textbooks on intelligent transportation, with the advancement of technology and changes in demand, the key technologies of ITS are also rapidly changing. This book chiefly focuses on the main technologies of ITS, examining them from four perspectives: "sense" perception and management of traffic information, chapters 2 & 3, "transmission" interaction of traffic information, chapter 4, "prediction" prediction of traffic states, chapter 6 and "application" intelligent transportation applications, chapters 6 through 10. Given its scope, the book can be used as a textbook for undergraduates or graduates, as well as a reference book for research institutes and enterprises. This book emphasizes the use of basis traffic engineering principles and state-of-art methodologies to develop functional designs. It largely reflects the authors own experience in adapting these methodologies to ITS design. For example, the book addresses various forms of data collection, models used to predict and evaluate traffic states, comprehensive description in connected vehicles, applications for users and traffic managers, etc. The knowledge gained here will allow designers to estimate the performance differences among alternatives and gauge their potential benefits for functional design purposes. To gain the most from the book, readers should be somewhat familiar with the field of traffic engineering and interested in ITS.

**Scientific and Technical Aerospace Reports** 1991 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

**Tornadoes** Michael Allaby 2014-05-14 Describes how tornadoes form, ongoing research to better understand why they form when they do, and histories of some of the worst storms to

ever occur.

On the Measurement of Low Level Hurricane Winds by Airborne Dual Beam Radar Kenneth M. Glover 1969

Intelligent Processing Algorithms and Applications for GPS Positioning Data of Qinghai-Tibet Railway Dewang Chen 2019-06-07 Taking the Qinghai – Tibet Railway as an example, this book introduces intelligent processing for Global Positioning Data (GPS) data. Combining theory with practical applications, it provides essential insights into the Chinese Qinghai – Tibet Railway and novel methods of data processing for GPS satellite positioning, making it a valuable resource for all those working with train control systems, train positioning systems, satellite positioning, and intelligent data processing. As satellite positioning guarantees the safe and efficient operation of train control systems, it focuses on how to best process the GPS data collected, including methods for error detection, reduction and information fusion.

Encyclopedia of Nonlinear Science Alwyn Scott 2006-05-17 In 438 alphabetically-arranged essays, this work provides a useful overview of the core mathematical background for nonlinear science, as well as its applications to key problems in ecology and biological systems, chemical reaction-diffusion problems, geophysics, economics, electrical and mechanical oscillations in engineering systems, lasers and nonlinear optics, fluid mechanics and turbulence, and condensed matter physics, among others.

Remote Sensing of Atmospheric Conditions for Wind Energy Applications Charlotte Bay Hasager 2019-05-24 This Special Issue “ Atmospheric Conditions for Wind Energy Applications ” hosts papers on aspects of remote sensing for atmospheric conditions for wind energy applications. Wind lidar technology is presented from a theoretical view on the coherent focused Doppler lidar principles. Furthermore, wind lidar for applied use for wind turbine control, wind farm wake, and gust characterizations is presented, as well as methods to reduce uncertainty when using lidar in complex terrain. Wind lidar observations are used to validate numerical model results. Wind Doppler lidar mounted on aircraft used for observing winds in hurricane conditions and Doppler radar on the ground used for very short-term wind forecasting are presented. For the offshore environment, floating lidar data processing is presented as well as an experiment with wind-profiling lidar on a ferry for model validation. Assessments of wind resources in the coastal zone using wind-profiling lidar and global wind maps using satellite data are presented.

Doppler Radar and Weather Observations R. J. Doviak 2006-01-01 This book reviews the principles of Doppler radar and emphasizes the quantitative measurement of meteorological parameters. It illustrates the relation of Doppler radar data and images to atmospheric phenomena such as tornadoes, microbursts, waves, turbulence, density currents, hurricanes, and lightning. Geared toward upper-level undergraduates and graduate students, this text was written by two scientists at the National Severe Storms Laboratory in Norman, Oklahoma, a division of the National Oceanic and Atmospheric Administration. Topics include electromagnetic waves and propagation, weather signals and their Doppler spectra, weather signal processing, measurements of precipitation and turbulence, and observations of winds and storms as well as fair weather. Radar images and photographs of weather phenomena highlight the text.

Advances in Instrumentation 1962

Basic Training in Speed Measurement Instructional Manual Illinois State Police 1987

Instruments, Measurement, Electronics and Information Engineering J.Z. Ma 2013-08-08 Collection of selected, peer reviewed papers from the 2013 International Conference on Precision Mechanical Instruments and Measurement Technology (ICPMIMT 2013), May 25-26, 2013, Shenyang, Liaoning, China. The 804 papers are grouped as follows: Chapter 1: Mechatronics, Control and Management, Measurement and Instrumentation, Monitoring Technologies; Chapter 2: Materials Science and Manufacturing Engineering; Chapter 3: Power Systems, Electronics and Microelectronics, Embedded and Integrated Systems, Communication; Chapter 4: Computational Methods and Algorithms, Applied Information Technologies.

Basic Training Program in RADAR Speed Measurement 1985

Monthly Catalog of United States Government Publications 1987

Monthly Weather Review 1979

Official Gazette of the United States Patent and Trademark Office 2000

Computer Vision: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources 2018-02-02 The fields of computer vision and image processing are constantly evolving as new research and applications in these areas emerge. Staying abreast of the most up-to-date developments in this field is necessary in order to promote further research and apply these developments in real-world settings. Computer Vision: Concepts, Methodologies, Tools, and Applications is an innovative reference source for the latest academic material on development of computers for gaining understanding about videos and digital images. Highlighting a range of topics, such as computational models, machine learning, and image processing, this multi-volume book is ideally designed for academicians, technology professionals, students, and researchers interested in uncovering the latest innovations in the field.

Planar Microwave Sensors Ferran Mart í n 2022-09-02 Comprehensive resource detailing the latest advances in microwave and wireless sensors implemented in planar technology Planar Microwave Sensors is an authoritative resource on the subject, discussing the main relevant sensing strategies, working principles, and applications on the basis of the authors ’ own experience and background, while also highlighting the most relevant contributions to the topic reported by international research groups. The authors provide an overview of planar microwave sensors grouped by chapters according to their working principle. In each chapter, the working principle is explained in detail and the specific sensor design strategies are discussed, including validation examples at both simulation and experimental level. The most suited applications in each case are also reported. The necessary theory and analysis for sensor design are further provided, with special emphasis on performance improvement (i.e., sensitivity and resolution optimization, dynamic range, etc.). Lastly, the work covers a number of applications, from material characterization to biosensing, including motion control sensors, microfluidic sensors, industrial sensors, and more. Sample topics covered in the work include: Non-resonant and resonant sensors, reflective-mode and transmission-mode sensors, single-ended and differential sensors, and contact and contactless sensors Design guidelines for sensor performance optimization and analytical methods to retrieve the variables of interest from the measured sensor responses Radiofrequency identification (RFID) sensor types, prospective applications, and materials/technologies towards “ green sensors ” implementation Comparisons between different technologies for sensing and the advantages and limitations of microwave sensors, particularly planar sensors Engineers and qualified professionals involved in sensor technologies, along with undergraduate and graduate students in related programs of study, can harness the valuable information inside Planar Microwave Sensors to gain complete foundational knowledge on the subject and stay up to date on the latest research and developments in the field.

Intelligent Systems: Concepts, Methodologies, Tools, and Applications Management Association, Information Resources 2018-06-04 Ongoing advancements in modern technology have led to significant developments in intelligent systems. With the numerous applications available, it becomes imperative to conduct research and make further progress in this field. Intelligent Systems: Concepts, Methodologies, Tools, and Applications contains a compendium of the latest academic material on the latest breakthroughs and recent progress in intelligent systems. Including innovative studies on information retrieval, artificial intelligence, and software engineering, this multi-volume book is an ideal source for researchers, professionals, academics, upper-level students, and practitioners interested in emerging perspectives in the field of intelligent systems.