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PC Mag- 1990-02-27 PCMag.com is a leading authority on technology, delivering Labs-based, independent reviews of the latest products and services. Our expert industry analysis and practical solutions help you make better buying decisions and get more from technology.

Free Electron Lasers 2000-V.N. Litvinenko 2006-01-10 The 22nd International Free Electron Laser Conference and 7th FEL User Workshop were held August 13-18, 2000 at Washington Duke Inn and Golf Club in Durham, North Carolina, USA. The conference and the workshop were hosted by Duke University's Free Electron laser (FEL) Laboratory. Following tradition, the FEL prize award was announced at the banquet. The year 2000 FEL prize was awarded to three scientists propelling the limits of high power FELs: Steven Benson, Eisuke Minehara and George Neill. The conference program was comprised of traditional oral sessions on First Lasing, FEL theory, storage ring FELs, linac and high power FELs, long wavelength FELs, SASE FELs, accelerator and FEL physics and technology, and new developments and proposals. Two sessions on accelerator and FEL physics and technology reflected the emphasis on the high quality of accelerators and components for modern FELs. The breadth of the applications was presented in the workshop oral sessions on materials processing, biomedical and surgical applications, physics and

chemistry as well as on instrumentation and methods for FEL applications. A special oral session was dedicated to FEL center status reports for users to learn more about the opportunities with FELs. As usual, the oral sessions were supplemented by poster sessions with in-depth discussions and communications. The FEL physicists and FEL users had excellent opportunities to interact throughout the duration of the event, culminating a Joint Sessions. The year 2000 was very successful being marked by lasing with two SASE and one storage ring short-wavelength FELs, and by the first human surgery with the use of FEL, to mention but a few. The International Program Committee and chairs of the sessions had the challenging and exciting problem of selecting invited and contributed talks for the conferences and the workshop from the influx of abstracts mentioning new results and ideas. The success of the conference was determined by these contributions. Scientists from 15 countries gave 70 talks, presented 176 posters and submitted 146 papers, which are published in the present volume of proceedings.

Compute- 1988

Laser Beam Shaping-Fred M. Dickey 2018-09-03 Laser Beam Shaping: Theory and Techniques addresses the theory and practice of every important technique for lossless beam shaping. Complete with experimental results as well as guidance on when beam shaping is practical and when

each technique is appropriate, the Second Edition is updated to reflect significant developments in the field. This authoritative text: Features new chapters on axicon light ring generation systems, laser-beam-splitting (fan-out) gratings, vortex beams, and microlens diffusers Describes the latest advances in beam profile measurement technology and laser beam shaping using diffractive diffusers Contains new material on wavelength dependence, channel integrators, geometrical optics, and optical software Laser Beam Shaping: Theory and Techniques, Second Edition not only provides a working understanding of the fundamentals, but also offers insight into the potential application of laser-beam-profile shaping in laser system design.

Measurements in Distance Education-Amy J. Catalano 2018-02-13 As more postsecondary faculty become engaged in designing online learning environments, research conducted on distance education program quality becomes increasingly important. Measurements in Distance Education is a concise, well-organized guide to some of the many instruments, scales, and methods that have been created to assess distance education environments, learners, and teachers. Entries are organized according to the qualities these measures attempt to gauge—such as engagement and information retention—and provide summaries of each instrument, usage information, the history of its development, and validation, including any reported psychometric properties. Offering more than 50 different surveys, tests, and other metrics, this book is an essential reference for anyone interested in understanding distance education assessment.

Evolution of the Western Interior Basin-Geological Association of Canada 1993

A First Course in Design and Analysis of Experiments-Gary W. Oehlert 2000-01-19 Oehlert's text is suitable for either a service course for non-statistics graduate students or for statistics majors. Unlike most texts for the one-term grad/upper level course on experimental design, Oehlert's new book offers a superb balance of both analysis and design, presenting three

practical themes to students: • when to use various designs • how to analyze the results • how to recognize various design options Also, unlike other older texts, the book is fully oriented toward the use of statistical software in analyzing experiments.

Elements for Physics-Albert Tarantola 2006-12-30 Reviews and extends the theory of Lie groups, develops differential geometry, proposing compact definitions of torsion and of curvature, and adapts the usual notion of linear tangent application to the intrinsic point of view proposed for physics. Uses a unifying illustration: two simple theories are studied with some detail, the theory of heat conduction and the theory of linear elastic media. Shows that the resulting equations derived in this manner differ quantitatively and qualitatively from those usually presented.

Long Term Socio-Ecological Research-Simron Jit Singh 2012-11-13 The authors in this volume make a case for LTSER's potential in providing insights, knowledge and experience necessary for a sustainability transition. This expertly edited selection of contributions from Europe and North America reviews the development of LTSER since its inception and assesses its current state, which has evolved to recognize the value of formulating solutions to the host of ecological threats we face. Through many case studies, this book gives the reader a greater sense of where we are and what still needs to be done to engage in and make meaning from long-term, place-based and cross-disciplinary engagements with socio-ecological systems.

Simplified Facial Rejuvenation-Melvin A. Shiffman 2007-10-27 Simplified Facial Rejuvenation is divided into sections that include anatomy and anesthesia, classifications, dermatologic procedures, suture lifts, surgical variations of the face, surgical variations of the eyes, brow, neck, lips, nose ear, and scalp, and medical legal aspects. The book presents multiple variations of suture lift procedures to allow the physician to decide which is best. Unique surgical procedures of the face are presented, many of which are techniques of minimal incision facelift. The book brings together the

more popular procedures for patients that include simpler methods of facial rejuvenation with less pain, shorter recovery time, lower cost, and fewer complications.

Statistical Analysis with R For Dummies-Joseph Schmuller 2017-03-20 Understanding the world of R programming and analysis has never been easier Most guides to R, whether books or online, focus on R functions and procedures. But now, thanks to Statistical Analysis with R For Dummies, you have access to a trusted, easy-to-follow guide that focuses on the foundational statistical concepts that R addresses—as well as step-by-step guidance that shows you exactly how to implement them using R programming. People are becoming more aware of R every day as major institutions are adopting it as a standard. Part of its appeal is that it's a free tool that's taking the place of costly statistical software packages that sometimes take an inordinate amount of time to learn. Plus, R enables a user to carry out complex statistical analyses by simply entering a few commands, making sophisticated analyses available and understandable to a wide audience. Statistical Analysis with R For Dummies enables you to perform these analyses and to fully understand their implications and results. Gets you up to speed on the #1 analytics/data science software tool Demonstrates how to easily find, download, and use cutting-edge community-reviewed methods in statistics and predictive modeling Shows you how R offers intel from leading researchers in data science, free of charge Provides information on using R Studio to work with R Get ready to use R to crunch and analyze your data—the fast and easy way!

Earth Observation Open Science and Innovation-Pierre-Philippe Mathieu 2018-01-23 This book is published open access under a CC BY 4.0 license. Over the past decades, rapid developments in digital and sensing technologies, such as the Cloud, Web and Internet of Things, have dramatically changed the way we live and work. The digital transformation is revolutionizing our ability to monitor our planet and transforming the way we access, process and exploit Earth Observation data from satellites. This book reviews these megatrends and their implications for the Earth Observation community as well as the wider data economy. It provides insight into new paradigms of Open Science and Innovation applied to space

data, which are characterized by openness, access to large volume of complex data, wide availability of new community tools, new techniques for big data analytics such as Artificial Intelligence, unprecedented level of computing power, and new types of collaboration among researchers, innovators, entrepreneurs and citizen scientists. In addition, this book aims to provide readers with some reflections on the future of Earth Observation, highlighting through a series of use cases not just the new opportunities created by the New Space revolution, but also the new challenges that must be addressed in order to make the most of the large volume of complex and diverse data delivered by the new generation of satellites.

Dictionary of Medical Acronyms and Abbreviations-Stanley Jablonski 2004-09 This dictionary lists acronyms and abbreviations occurring with a reasonable frequency in the literature of medicine and the health care professions. Abbreviations and acronyms are given in capital letters, with no punctuation, and with concise definitions. The beginning sections also include symbols, genetic symbols, and the Greek alphabet and symbols.

Paul Prescott's Charge-Jr. Horatio Alger 2019-11-26 "Paul Prescott's Charge" by Jr. Horatio Alger. Published by Good Press. Good Press publishes a wide range of titles that encompasses every genre. From well-known classics & literary fiction and non-fiction to forgotten—or yet undiscovered gems—of world literature, we issue the books that need to be read. Each Good Press edition has been meticulously edited and formatted to boost readability for all e-readers and devices. Our goal is to produce eBooks that are user-friendly and accessible to everyone in a high-quality digital format.

New trends for innovation in the Mediterranean animal production-R. Bouche 2012-03-26 The Mediterranean area shows a great diversity of livestock systems, depending on local resources and traditions, but also on the networking space where informational resources are available for producers. During the last decades, a lot of innovations have been conceived or introduced in the Mediterranean area, allowing livestock

systems to remain competitive. The book looks at two main issues: firstly, it gives an updated review on the main innovations that significantly changed the activities of livestock production in the Mediterranean area in the recent past. Secondly, the focus lies on the extent to which these innovations improve the efficiency, ensure the socio-cultural basis or reduce the environmental impact of livestock systems. One major finding is a new vision of innovating systems based on the distinction between regulated innovation (when aims are fixed) and innovative design (when aims are questioned). Innovations reported in the book are dealing with a set of concerns. They concern the production techniques, the work organization, the equipment and infrastructures, the collective features for selection, reproduction, feeding or sanitary devices. They also concern the local organization such as product labelling, new dynamics around local breeds, collective rules for supply basin or approaches of new products for new markets. More recently, some innovations focus on environmental impacts of livestock production, due to an increasing consciousness of those kinds of problems. In the final part of the book, a round table copes with a crucial question: are traditions in Mediterranean livestock activities to be considered an obstacle or a source of innovation? This book provides a set of updated information and knowledge useful for researchers, students, extension services and policy-makers in the field of animal science.

IBM SAN Survival Guide-Jon Tate 2015-08-05 As we all know, large ocean going ships never collide with icebergs. However, occasionally life deals out some unexpected pleasures for us to cope with. Surviving any disaster in life is usually a lot easier if you have prepared adequately by taking into account the likely problems, solutions, and their implementation. In this IBM Redbooks publication, we limit ourselves to those situations in which it is likely that a SAN will be deployed. We present the IBM SAN portfolio of products, going a little under the surface to show the fault tolerant features that they utilize, and then describe solutions with all these features taken into account. Each of these solutions was built on practical experience, in some cases with cost in mind, in some cases with no cost in mind. Any well-thought-out SAN design will have taken every single one of these concerns into account, and either formulated a solution for it, or ignored it, but nonetheless understanding the potential exposure. With these points in mind, in this book we have two objectives: to position the IBM SAN products

that are currently in our portfolio; and to show how those products can be configured together to build a SAN that not only allows you to survive most forms of disaster, but also provides performance benefits. So, make sure that you know what to do if you hit an iceberg!

Quaternary Nonglacial Geology-Roger Barron Morrison 1991

MEG-Peter Hansen 2010-07-01 Magnetoencephalography (MEG) is an exciting brain imaging technology that allows real-time tracking of neural activity, making it an invaluable tool for advancing our understanding of brain function. In this comprehensive introduction to MEG, Peter Hansen, Morten Kringelbach, and Riitta Salmelin have brought together the leading researchers to provide the basic tools for planning and executing MEG experiments, as well as analyzing and interpreting the resulting data. Chapters on the basics describe the fundamentals of MEG and its instrumentation, and provide guidelines for designing experiments and performing successful measurements. Chapters on data analysis present it in detail, from general concepts and assumptions to analysis of evoked responses and oscillatory background activity. Chapters on solutions propose potential solutions to the inverse problem using techniques such as minimum norm estimates, spatial filters and beamformers. Chapters on combinations elucidate how MEG can be used to complement other neuroimaging techniques. Chapters on applications provide practical examples of how to use MEG to study sensory processing and cognitive tasks, and how MEG can be used in a clinical setting. These chapters form a complete basic reference source for those interested in exploring or already using MEG that will hopefully inspire them to try to develop new, exciting approaches to designing and analyzing their own studies. This book will be a valuable resource for researchers from diverse fields, including neuroimaging, cognitive neuroscience, medical imaging, computer modelling, as well as for clinical practitioners.

Applied Data Science-Martin Braschler 2019-06-13 This book has two main goals: to define data science through the work of data scientists and

their results, namely data products, while simultaneously providing the reader with relevant lessons learned from applied data science projects at the intersection of academia and industry. As such, it is not a replacement for a classical textbook (i.e., it does not elaborate on fundamentals of methods and principles described elsewhere), but systematically highlights the connection between theory, on the one hand, and its application in specific use cases, on the other. With these goals in mind, the book is divided into three parts: Part I pays tribute to the interdisciplinary nature of data science and provides a common understanding of data science terminology for readers with different backgrounds. These six chapters are geared towards drawing a consistent picture of data science and were predominantly written by the editors themselves. Part II then broadens the spectrum by presenting views and insights from diverse authors – some from academia and some from industry, ranging from financial to health and from manufacturing to e-commerce. Each of these chapters describes a fundamental principle, method or tool in data science by analyzing specific use cases and drawing concrete conclusions from them. The case studies presented, and the methods and tools applied, represent the nuts and bolts of data science. Finally, Part III was again written from the perspective of the editors and summarizes the lessons learned that have been distilled from the case studies in Part II. The section can be viewed as a meta-study on data science across a broad range of domains, viewpoints and fields. Moreover, it provides answers to the question of what the mission-critical factors for success in different data science undertakings are. The book targets professionals as well as students of data science: first, practicing data scientists in industry and academia who want to broaden their scope and expand their knowledge by drawing on the authors' combined experience. Second, decision makers in businesses who face the challenge of creating or implementing a data-driven strategy and who want to learn from success stories spanning a range of industries. Third, students of data science who want to understand both the theoretical and practical aspects of data science, vetted by real-world case studies at the intersection of academia and industry.

Applied Electrostatic Precipitation-K.R. Parker 2012-12-06 Many industrial, power generation and chemical processes produce unwanted fine particulate material as a consequence of their operation. Electrostatic

precipitation is a highly efficient method of removing entrained particulate contaminants from exhaust gases and is extensively used in these industries to limit particulate emissions. New legislation aimed at improving the environment by further limiting these discharges has resulted in the technique undergoing considerable development over the past decade, to the point where it has become the method of choice, over a wide range of applications, for limiting particulate discharges. In this new book, the editor has brought together an international team of contributors, mainly industrialists and consultants, to produce an authoritative and practical guide to electrostatic precipitation. This book is of interest to all those in process industries or power generation and to academics concerned with gas cleaning and environmental issues.

MRI for Radiotherapy-Gary Liney 2019-06-20 This book provides, for the first time, a unified approach to the application of MRI in radiotherapy that incorporates both a physics and a clinical perspective. Readers will find detailed information and guidance on the role of MRI in all aspects of treatment, from dose planning, with or without CT, through to response assessment. Extensive coverage is devoted to the latest technological developments and emerging options. These include hybrid MRI treatment systems, such as MRI-Linac and proton-guided systems, which are ushering in an era of real-time MRI guidance. The past decade has witnessed an unprecedented rise in the use of MRI in the radiation treatment of cancer. The development of highly conformal dose delivery techniques has led to a growing need to harness advanced imaging for patient treatment. With its flexible soft tissue contrast and ability to acquire functional information, MRI offers advantages at all stages of treatment. In documenting the state of the art in the field, this book will be of value to a wide range of professionals. The authors are international experts drawn from the scientific committee of the 2017 MR in RT symposium and the faculty of the ESTRO teaching course on imaging for physicists.

Targeted Intracellular Drug Delivery by Receptor Mediated Endocytosis-Padma V. Devarajan 2019-11-09 This book elaborates on drug delivery targeting via intracellular delivery, specifically through the

Receptor Mediated Endocytosis (RME) approach, due to the involvement of cellular receptors in various grave diseases. Targeted delivery relies on two basic approaches, passive and active targeting. While passive targeting approaches have shown great promise, the improved selectivity achieved with active targeting approaches has resulted in significantly higher efficacy. Interestingly there are numerous strategies for active targeting, many of which are already highlighted in , Targeted Drug Delivery: Concepts and Applications. Nevertheless an exciting and practical strategy for active targeting, which could enable high intracellular delivery, is through exploitation of RME. Cells in the body express receptors to enable various physiological and biochemical processes. As a result, many of these receptors are overexpressed in pathological conditions, or newer receptors expressed due to defective cellular functioning. RME is based on exploitation of such receptors to achieve intracellular delivery. While targeted delivery can have manifold applications, in this book we focus on two major and challenging therapeutic areas; i) Cancer and ii) Infectious Diseases. Targeted Intracellular Drug Delivery by Receptor Mediated Endocytosis discusses the major receptors that are useful for targeted delivery for these afflictions. A major section of this book is dedicated to details regarding their occurrence and location, the recognition domain of the receptor, structure activity relationship of substrate /ligand for selective binding, ligands explored, antagonists for ligand binding and relevance of these aspects for therapy of cancer and infectious diseases. These facets are elucidated with the help of specific examples from academic research and also emphasize commercial products, wherever relevant. In vitro cellular models relied on for assessing receptor mediated cellular targeting and in vivo models depicting clinical efficacy are focused on in a separate section. Finally, we briefly discuss the regulatory and toxicity issues that may be associated specifically with the RME approach of intracellular drug delivery.

Data Analysis-Wolfgang A. Gaul 2012-12-06 "Data Analysis" in the broadest sense is the general term for a field of activities of ever-increasing importance in a time called the information age. It covers new areas with such trendy labels as, e.g., data mining or web mining as well as traditional directions emphasizing, e.g., classification or knowledge organization. Leading researchers in data analysis have contributed to this volume and delivered papers on aspects ranging from scientific modeling to practical

application. They have devoted their latest contributions to a book edited to honor a colleague and friend, Hans-Hermann Bock, who has been active in this field for nearly thirty years.

Book of Abstracts of the 68th Annual Meeting of the European Federation of Animal Science-EAAP Scientific committee 2017-08-29 This Book of Abstracts is the main publication of the 68th Annual Meeting of the European Federation of Animal Science (EAAP). It contains abstracts of the invited papers and contributed presentations of the sessions of EAAP's eleven Commissions: Animal Genetics, Animal Nutrition, Animal Management and Health, Animal Physiology, Cattle Production, Sheep and Goat Production, Pig Production, Horse Production and Livestock Farming Systems, Insects and Precision Livestock Farming.

Analysis and Performance of Fiber Composites-Bhagwan D. Agarwal 1990-10-08 Having fully established themselves as workable engineering materials, composite materials are now increasingly commonplace around the world. Serves as both a text and reference guide to the behavior of composite materials in different engineering applications. Revised for this Second Edition, the text includes a general discussion of composites as material, practical aspects of design and performance, and further analysis that will be helpful to those engaged in research on composites. Each chapter closes with references for further reading and a set of problems that will be useful in developing a better understanding of the subject.

The Sourcebook for Teaching Science, Grades 6-12-Norman Herr 2008-08-11 A resource for middle and high school teachers offers activities, lesson plans, experiments, demonstrations, and games for teaching physics, chemistry, biology, and the earth and space sciences.

Spatial Analysis in Field Primatology-Francine L. Dolins 2021-02-18 A primatologist's guide to using geographic information systems (GIS); from mapping and field accuracy, to tracking travel routes and the impact of

logging.

Government Reports Announcements & Index- 1987-03

Causes and Consequences of Species Diversity in Forest Ecosystems-

Aaron M. Ellison 2019-07-30 This book is a printed edition of the Special Issue Causes and Consequences of Species Diversity in Forest Ecosystems that was published in Forests

Carbon Management in Tropical and Sub-Tropical Terrestrial

Systems-Probir K. Ghosh 2019-11-23 Soil organic carbon (SOC), a key component of the global carbon (C) pool, plays an important role in C cycling, regulating climate, water supplies and biodiversity, and therefore in providing the ecosystem services that are essential to human well-being. Most agricultural soils in temperate regions have now lost as much as 60% of their SOC, and as much as 75% in tropical regions, due to conversion from natural ecosystems to agricultural uses and mainly due to continuous soil degradation. Sequestering C can help to offset C emissions from fossil fuel combustion and other C-emitting activities, while also enhancing soil quality and long-term agronomic productivity. However, developing effective policies for creating terrestrial C sinks is a serious challenge in tropical and subtropical soils, due to the high average annual temperatures in these regions. It can be accomplished by implementing improved land management practices that add substantial amounts of biomass to soil, cause minimal soil disturbance, conserve soil and water, improve soil structure, and enhance soil fauna activity. Continuous no-till crop production is arguably the best example. These soils need technically sound and economically feasible strategies to sustainably enhance their SOC pools. Hence, this book provides comprehensive information on SOC and its management in different land-use systems, with a focus on preserving soils and their ecosystem services. The only book of its kind, it offers a valuable asset for students, researchers, policymakers and other stakeholders involved in the sustainable development and management of natural resources at the global level.

The Environmental Challenges of Nuclear Disarmament-Thomas E. Baca 2000-08-31 This book draws together recognized experts from numerous institutions in Western Europe, Eastern Europe, the former Soviet Union, and North America. Nuclear facility decontamination and decommissioning, waste treatment, management and disposal, long-term monitoring and surveillance, and prevention of proliferation are the primary topics discussed, including critical assessments of the existing knowledge and identification of the needs for future collaboration. Proposals are presented for a variety of national and international agencies, and preliminary business plans developed for collaboration with private companies. A network of international projects needs to be financed since it is such projects that will ultimately ease tensions, help solve nuclear waste contamination and security problems, and help pave the road toward nuclear weapons disarmament.

Nonclinical Statistics for Pharmaceutical and Biotechnology

Industries-Lanju Zhang 2016-01-13 This book serves as a reference text for regulatory, industry and academic statisticians and also a handy manual for entry level Statisticians. Additionally it aims to stimulate academic interest in the field of Nonclinical Statistics and promote this as an important discipline in its own right. This text brings together for the first time in a single volume a comprehensive survey of methods important to the nonclinical science areas within the pharmaceutical and biotechnology industries. Specifically the Discovery and Translational sciences, the Safety/Toxicology sciences, and the Chemistry, Manufacturing and Controls sciences. Drug discovery and development is a long and costly process. Most decisions in the drug development process are made with incomplete information. The data is rife with uncertainties and hence risky by nature. This is therefore the purview of Statistics. As such, this book aims to introduce readers to important statistical thinking and its application in these nonclinical areas. The chapters provide as appropriate, a scientific background to the topic, relevant regulatory guidance, current statistical practice, and further research directions.

Wind Energy and Wildlife Impacts-Regina Bispo 2019-03-25 This book provides a state-of-art overview of the significant advances in understanding the impacts of wind energy on wildlife. However, many challenges remain regarding planning and policy, assessment of direct and indirect effects on wildlife, methodological approaches, technology development, and mitigation strategies and their effectiveness. The book comprises a selection of the best contributions presented at the 4th Conference on Wind energy and Wildlife impacts, held in Estoril, Portugal, 2017. The contents promote the international cooperation among researchers, developers, regulators and stakeholders that have contributed to building knowledge on this topic.

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Coastal Engineering-Dominic Reeve 2018-03-09 Effective coastal engineering is expensive, but it is not as costly as neglect or ineffective intervention. Good practice needs to be based on sound principles, but theoretical work and modelling also need to be well grounded in practice, which is continuously evolving. Conceptual and detailed design has been advanced by new industry publications since the publication of the second edition. This third edition provides a number of updates: the sections on wave overtopping have been updated to reflect changes brought in with the recently issued EurOtop II manual; a detailed worked example is given of the calculation of extreme wave conditions for design; additional examples have been included on the reliability of structures and probabilistic design; the method for tidal analysis and calculation of amplitudes and phases of harmonic constituents from water level time series has been introduced in a new appendix together with a worked example of harmonic analysis; and a real-life example is included of a design adapting to climate change. This book is especially useful as an information source for undergraduates and engineering MSc students specializing in coastal engineering and management. Readers require a good grounding in basic fluid mechanics or engineering hydraulics, and some familiarity with elementary statistical concepts.

The European Landing Obligation-Sven Sebastian Uhlmann 2019-01-01 This open access book provides a comprehensive examination of the European Landing Obligation policy from many relevant perspectives. It includes evaluations of its impacts at economical, socio-cultural, ecological and institutional levels. It also discusses the feasibility and benefits of several potential mitigation strategies. The book was timely published, exactly at the time where the Landing Obligation was planned to be fully implemented. This book is of significant interest to all stakeholders involved, but also to the general public of Europe and to other jurisdictions throughout the world that are also searching for ways to deal with by-catch and discard issues.

The Vatican Observatory, Castel Gandolfo: 80th Anniversary Celebration-Gabriele Gionti, S. J. 2018-01-04 This book presents contributions from an internal symposium organized to celebrate the 80th anniversary of the Specola Vaticana, or Vatican Observatory, in the Papal Palace of Castel Gandolfo. The aim is to provide an overview of the scientific and cultural work being undertaken at the Observatory today and to describe the outcomes of important recent investigations. The contents cover interesting topics in a variety of areas, including planetary science and instrumentation, stellar evolution and stars, galaxies, cosmology, quantum gravity, the history of astronomy, and interactions between science, philosophy, and theology. On September 29, 1935, Pope Pius XI officially inaugurated the new headquarters of the Specola Vaticana at Castel Gandolfo. With new telescopes, a new astrophysical laboratory for spectrochemical analysis, and a young staff comprising Jesuit scientists, this inauguration marked the beginning of an intense period of scientific achievements at the Observatory. This anniversary book, featuring contributions from members of the current Observatory staff and adjunct scholars, will appeal to all with an interest in the history of the Specola Vaticana and its significance for astronomy.

International Conference on Biomedical and Health Informatics-Yuan-Ting Zhang 2018-12-28 This volume presents the proceedings of the

International Conference on Biomedical and Health Informatics (ICBHI). The conference was a new special topic conference and a common initiative by the International Federation of Medical and Biological Engineering (IFMBE) and IEEE Engineering in Medicine and Biology Society (IEEE-EMBS). BHI2015 was held in Haikou, China, 8-10 October 2015. The main theme of the BHI2015 is "The Convergence: Integrating Information and Communication Technologies with Biomedicine for Global Health". The ICBHI2015 proceedings examine enabling technologies of sensors, devices and systems that optimize the acquisition, transmission, processing, storage, retrieval, use of biomedical and health information as well as to report novel clinical applications of health information systems and the deployment of m-Health, e-Health, u-Health, p-Health and Telemedicine.

Linear Models with R-Julian J. Faraway 2016-04-19 A Hands-On Way to Learning Data Analysis Part of the core of statistics, linear models are used to make predictions and explain the relationship between the response and the predictors. Understanding linear models is crucial to a broader competence in the practice of statistics. Linear Models with R, Second Edition explains how to use linear models

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