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937 - JOYCE VALENCIA

This useful guide educates students in the preparation of literature reviews for term projects, theses, and dissertations. The authors provide numerous examples from published reviews that illustrate the guidelines discussed throughout the book. ? New to the seventh edition: ? Each chapter breaks down the larger holistic review of literature exercise into a series of smaller, manageable steps Practical instructions for navigating today's digital libraries Comprehensive discussions about digital tools, including bibliographic and plagiarism detection software Chapter activities that reflect the book's updated content New model literature reviews Online resources designed to help instructors plan and teach their courses (www.routledge.com/9780415315746).

This book constitutes the proceedings of the 17th International Conference on Discovery Science, DS 2015, held in Banff, AB, Canada in October 2015. The 16 long and 12 short papers presented together with 4 invited talks in this volume were carefully reviewed and selected from 44 submissions. The combination of recent advances in the development and analysis of methods for discovering scientific knowledge, coming from machine learning, data mining, and intelligent data analysis, as well as their application in various scientific domains, on the one hand, with the algorithmic advances in machine learning theory, on the other hand, makes every instance of this joint event unique and attractive.

Here is the essential how-to guide for communicating scientific research and discoveries online, ideal for journalists, researchers, and public information officers looking to reach a wide lay audience. Drawing on the cumulative experience of twenty-seven of the greatest minds in scientific communication, this invaluable handbook targets the specific questions and concerns of the scientific community, offering help in a wide range of digital areas, including blogging, creating podcasts, tweeting, and more. With step-by-step guidance and one-stop expertise, this is the book every scientist, science writer, and practitioner needs to approach the Wild West of the Web with knowledge and confidence.

At Eric's Rotisserie, Bing sat outside by himself, nursing white zinfandel beneath the large sunshade that jutted from the center of his table, while a blustery wind roamed across campus -- swirling dead leaves and bits of trash around the chairs and tables, flapping the awnings on the massive umbrellas. The weather kept the patio abandoned, and Bing preferred it that way -- no chatty couples nearby, no loudmouth students talking about sports, or, even worse, popular music. On this chilly afternoon, he didn't care that he was alone. He didn't care that he'd left his coat in his office. And, for a moment, he almost didn't mind that his head wasn't quite screwed on tightly today. In *Cosmology of Bing Mitch Cullin* offers a tale of intersecting lives during one school year in Houston: the college student and his artist roommate, the reclusive poet, the astronomer studying a supernova at a remote West Texas observatory, the young Japanese woman hopelessly in love with her gay friend -- and at the center of this group is Bing Owen, a college professor who drowns his heartbreak, paranoia, and secret desires with alcohol. It's a darkly humorous novel about longing, buried feelings and muted relationships, forgotten poetry and thrown pies -- in which the mysteries of love, the interconnectedness of individuals, and the inexplicable nature of attraction occupy the same microcosm as exploding stars, ghost lights, and specters from the past.

Classified list with author and title index.

Includes Part 1, Number 2: Books and Pamphlets, Including Serials and Contributions to Periodicals July - December)

Astronomy is written in clear non-technical language, with the occasional touch of humor and a wide range of clarifying illustrations. It has many analogies drawn from everyday life to help non-science majors appreciate, on their own terms, what our modern exploration of the universe is revealing. The book can be used for either a one-semester or two-semester introductory course (bear in mind, you can customize your version and include only those chapters or sections you will be teaching.) It is made available free of charge in electronic form (and low cost in printed form) to students around the world. If you have ever thrown up your hands in despair over the spiraling cost of astronomy textbooks, you owe your students a good look at this one. Coverage and Scope Astronomy was written, updated, and reviewed by a broad range of astronomers and astronomy educators in a strong community effort. It is designed to meet scope and sequence requirements of introductory astronomy courses nationwide. Chapter 1: Science and the Universe: A Brief Tour Chapter 2: Observing the Sky: The Birth of Astronomy Chapter 3: Orbits and Gravity Chapter 4: Earth, Moon, and Sky Chapter 5: Radiation and Spectra Chapter 6: Astronomical Instruments Chapter 7: Other Worlds: An Introduction to the Solar System Chapter 8: Earth as a Planet Chapter 9: Cratered Worlds Chapter 10: Earthlike Planets: Venus and Mars Chapter 11: The Giant Planets Chapter 12: Rings, Moons, and Pluto Chapter 13: Comets and Asteroids: Debris of the Solar System Chapter 14: Cosmic Samples and the Origin of the Solar System Chapter 15: The Sun: A Garden-Variety Star Chapter 16: The Sun: A Nuclear Powerhouse Chapter 17: Analyzing Starlight Chapter 18: The Stars: A Celestial Census Chapter 19: Celestial Distances Chapter 20: Between the Stars: Gas and Dust in Space Chapter 21: The Birth of Stars and the Discovery of Planets outside the Solar System Chapter 22: Stars from Adolescence to Old Age Chapter 23: The Death of Stars Chapter 24: Black Holes and Curved Spacetime Chapter 25: The Milky Way Galaxy Chapter 26: Galaxies Chapter 27: Active Galaxies, Quasars, and Supermassive Black Holes Chapter 28: The Evolution and Distribution of Galaxies Chapter 29: The Big Bang Chapter 30: Life in the Universe Appendix A: How to Study for Your Introductory Astronomy Course Appendix B: Astronomy Websites, Pictures, and Apps Appendix C: Scientific Notation Appendix D: Units Used in Science Appendix E: Some Useful Constants for Astronomy Appendix F: Physical and Orbital Data for the Planets Appendix G: Selected Moons of the Planets Appendix H: Upcoming Total Eclipses Appendix I: The Nearest Stars, Brown Dwarfs, and White Dwarfs Appendix J: The Brightest Twenty Stars Appendix K: The Chemical Elements Appendix L: The Constellations Appendix M: Star Charts and Sky Event Resources

Following a short introduction to the species and its closest commercially viable related species, namely pirapatinga (*Piaractus brachipomus*) and pacu (*Piaractus mesopotamicus*), this field guide provides practical information on the culture and reproduction of tambaqui (*Colossoma macropomum*). As a field guide it aims to support the understanding and dissemination of applicable technologies for the culture and reproduction of tambaqui, i.e. what should be done - as well as when and how it should be done - in order to achieve success in the artificial propagation as well as the fingerling and table fish production stages. The concise technical descriptions in this guide are accompanied by self-explanatory illustrations and a reader-friendly glossary of technical terms, which

is important for tambaqui aquaculture farmers.

Fluid Catalytic Cracking Handbook: An Expert Guide to the Practical Operation, Design, and Optimization of FCC Units, Fourth Edition, enables readers to maximize the profitability and reliability of fluid catalytic cracking operations by covering all stages of FCC, including their design, operation, troubleshooting and optimization. It includes valuable chapters on FCC Main Fractionator and Gas Plant and Process Engineering Tools that provide engineers with the relevant tools they need to fully optimize processes and operations. This book presents technologies and processes that will improve the profitability and reliability of FCC units, along with lessons from Mr. Sadeghbeigi's 30 years of field experience. The book provides a valuable reference for experienced engineers, but is also an ideal reference for those who are developing their skills and knowledge base. Presents relevant, real world examples that enable petrochemical engineers to achieve real term savings Contains dedicated chapters on lessons learned from troubleshooting cases carried out by the author Includes sections on FCC Main Fractionator and Gas Plant Covers both SI and Imperial Units throughout

Scores of talented and dedicated people serve the forensic science community, performing vitally important work. However, they are often constrained by lack of adequate resources, sound policies, and national support. It is clear that change and advancements, both systematic and scientific, are needed in a number of forensic science disciplines to ensure the reliability of work, establish enforceable standards, and promote best practices with consistent application. *Strengthening Forensic Science in the United States: A Path Forward* provides a detailed plan for addressing these needs and suggests the creation of a new government entity, the National Institute of Forensic Science, to establish and enforce standards within the forensic science community. The benefits of improving and regulating the forensic science disciplines are clear: assisting law enforcement officials, enhancing homeland security, and reducing the risk of wrongful conviction and exoneration. *Strengthening Forensic Science in the United States* gives a full account of what is needed to advance the forensic science disciplines, including upgrading of systems and organizational structures, better training, widespread adoption of uniform and enforceable best practices, and mandatory certification and accreditation programs. While this book provides an essential call-to-action for congress and policy makers, it also serves as a vital tool for law enforcement agencies, criminal prosecutors and attorneys, and forensic science educators.

The main objective of the ICITMS 2012 is to provide a platform for researchers, engineers, academics and industrial professionals from all over the world to present their research results and development activities in Information Technology and Management Science. This conference provides opportunities for the delegates to exchange new ideas and application experiences face to face, to establish business or research relations and to find global partners for future collaboration.

The five-volume set LNCS 11536, 11537, 11538, 11539 and 11540 constitutes the proceedings of the 19th International Conference on Computational Science, ICCS 2019, held in Faro, Portugal, in June 2019. The total of 65 full papers and 168 workshop papers presented in this book set were carefully reviewed and selected from 573 submissions (228 submissions to the main track and 345 submissions to the workshops). The papers were organized in topical sections named: Part I: ICCS Main Track Part II: ICCS Main Track; Track of Advances in High-Performance Computational Earth Sciences: Applications and Frameworks; Track of Agent-Based Simulations, Adaptive Algorithms and Solvers; Track of Applications of Matrix Methods in Artificial Intelligence and Machine Learning; Track of Architecture, Languages, Compilation and Hardware Support for Emerging and Heterogeneous Systems Part III: Track of Biomedical and Bioinformatics Challenges for Computer Science; Track of Classifier Learning from Difficult Data; Track of Computational Finance and Business Intelligence; Track of Computational Optimization, Modelling and Simulation; Track of Computational Science in IoT and Smart Systems Part IV: Track of Data-Driven Computational Sciences; Track of Machine Learning and Data Assimilation for Dynamical Systems; Track of Marine Computing in the Interconnected World for the Benefit of the Society; Track of Multiscale Modelling and Simulation; Track of Simulations of Flow and Transport: Modeling, Algorithms and Computation Part V: Track of Smart Systems: Computer Vision, Sensor Networks and Machine Learning; Track of Solving Problems with Uncertainties; Track of Teaching Computational Science; Poster Track ICCS 2019 Chapter "Comparing Domain-decomposition Methods for the Parallelization of Distributed Land Surface Models" is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com.

In June of 1968, just after the assassination of Robert Kennedy, Daly Racklin becomes the reluctant leader of the dying Irish community of Oakland Park in Pittsburgh. By the author of *Tales from the Irish Club*. 15,000 first printing.

Getting numbers is easy; getting numbers you can trust is hard. This practical guide by experimentation leaders at Google, LinkedIn, and Microsoft will teach you how to accelerate innovation using trustworthy online controlled experiments, or A/B tests. Based on practical experiences at companies that each run more than 20,000 controlled experiments a year, the authors share examples, pitfalls, and advice for students and industry professionals getting started with experiments, plus deeper dives into advanced topics for practitioners who want to improve the way they make data-driven decisions. Learn how to • Use the scientific method to evaluate hypotheses using controlled experiments • Define key metrics and ideally an Overall Evaluation Criterion • Test for trustworthiness of the results and alert experimenters to violated assumptions • Build a scalable platform that lowers the marginal cost of experiments close to zero • Avoid pitfalls like carryover effects and Twyman's law • Understand how statistical issues play out in practice.

For millions of Americans, birdwatching is nothing less than an obsession. For enthusiasts, the excitement of sighting a rare species, the pleasure of watching a bird in flight, and the satisfaction of being able to spot and identify different birds constitute a burning passion that travels with them wherever they go. *The Birdwatcher's Handbook* provides a marvelous resource for these dedicated hobbyists, offering a compendium of information about European birds that will be a delight to armchair readers and vacationers alike. In *The Birdwatcher's Handbook*, authors Paul Ehrlich, David Dobkin, Darryl Wheye, and Stuart Pimm provide in-depth information about British and Northern European birds not found in standard guides. Unlike quick-reference spotter's guides, this volume combines helpful identification aids with thorough descriptions of the birds' behavior and characteristics. Here you can find out where a bird nests, what type of nest it builds, and which partner builds it; how many eggs it lays, what they look like, which parent incubates them, and for how long; how it cares for its young, what it likes to eat, and its foraging habits. This comprehensive volume also provides details about displays, mating, wintering and migration, conservation status, and guides to further

reading. For the dedicated birdwatcher on the go (in one of the most popular vacation destinations for Americans), this information will constitute invaluable help for locating and following different birds, and for identifying them by their behavior as well as their appearance. And both bird-loving travelers and homebound enthusiasts will delight in the comprehensive background this book provides on 515 separate species—including 150 short essays on avian natural history. Bird-watchers form a remarkable group, dedicated to following their passion from the backyard to the most distant places. The Birdwatcher's Handbook provides the information they need for both at-a-glance reference in the field and hours of reading pleasure at home—the perfect companion to a trusted identification guide.

From coding languages and hardware to cyberbullying and gaming, this comprehensive homework helper for kids and parents covers the essentials of computer science. This unique visual study guide examines the technical aspects of computers, such as how they function, the latest digital devices and software, and how the Internet works. It also builds the confidence of parents and kids when facing challenges such as staying safe online, digital etiquette, and how to navigate the potential pitfalls of social media. Jargon-free language helps to explain difficult and potentially dread-inducing homework such as hacking, "big data" and malware, while colorful graphics help makes learning about the world of computer science exciting. Whether at home or school, this clear and helpful guide to computer science is the tool you need to be able to support students with confidence. Series Overview: DK's bestselling Help Your Kids With series contains crystal-clear visual breakdowns of important subjects. Simple graphics and jargon-free text are key to making this series a user-friendly resource for frustrated parents who want to help their children get the most out of school.

The biotechnology/biopharmaceutical sector has tremendously grown which led to the invention of engineered antibodies such as Antibody Drug Conjugates (ADCs), Bispecific T-cell engager (BITES), Dual Variable Domain (DVD) antibodies, and fusion proteins that are currently being used as therapeutic agents for immunology, oncology and other disease conditions. Regulatory agencies have raised the bar for the development and manufacture of antibody-based products, expecting to see the use of Quality by Design (QbD) elements demonstrating an in-depth understanding of product and process based on sound science. Drug delivery systems have become an increasingly important part of the therapy and most biopharmaceuticals for self-administration are being marketed as combination products. A survey of the market indicates that there is a strong need for a new book that will provide "one stop shopping" for the latest information and knowledge of the scientific and engineering advances made over the last few years in the area of biopharmaceutical product development. The new book entitled Development of Biopharmaceutical Drug Device Products is a reference text for scientists and engineers in the biopharmaceutical industry, academia or regulatory agencies. With insightful chapters from experts in the field, this new book reviews first principles, covers recent technological advancements and provides case studies and regulatory strategies relating to the development and manufacture of antibody-based products. It covers topics such as the importance of early preformulation studies during drug discovery to influence molecular selection for development, formulation strategies for new modalities, and the analytical techniques used to characterize them. It also addresses important considerations for later stage development such as the development of robust formulations and processes, including process engineering and modeling of manufacturing unit operations, the design of analytical comparability studies, and characterization of primary containers (pre-filled syringes and vials). Finally, the latter half of the book reviews key

considerations to ensure the development and approval of a patient-centered delivery system design. This involves the evolving regulatory framework with perspectives from both the US and EU industry experts, the role of international standards, design control/risk management, human factors and its importance in the product development and regulatory approval process, as well as review of the risk-based approach to bridging between devices used in clinical trials and the to-be-marketed device. Finally, case studies are provided throughout. The typical readership would have biology and/or engineering degrees and would include researchers, scientific leaders, industry specialists and technology developers working in the biopharmaceutical field.

Data-driven discovery is revolutionizing the modeling, prediction, and control of complex systems. This textbook brings together machine learning, engineering mathematics, and mathematical physics to integrate modeling and control of dynamical systems with modern methods in data science. It highlights many of the recent advances in scientific computing that enable data-driven methods to be applied to a diverse range of complex systems, such as turbulence, the brain, climate, epidemiology, finance, robotics, and autonomy. Aimed at advanced undergraduate and beginning graduate students in the engineering and physical sciences, the text presents a range of topics and methods from introductory to state of the art.

A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

This volume traces the modern critical and performance history of this play, one of Shakespeare's most-loved and most-performed comedies. The essay focus on such modern concerns as feminism, deconstruction, textual theory, and queer theory.

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.