

T Le Prism User Guide

With this accessible, introductory guide, you will quickly learn how to use and apply optical spectroscopy and optical microscopy techniques. Focusing on day-to-day implementation and offering practical lab tips throughout, it provides step-by-step instructions on how to select the best technique for a particular application, how to set up and customize new optical systems, and how to analyze optical data. You will gain an intuitive understanding of the full range of standard optical techniques, from fluorescence and Raman spectroscopy to super resolution microscopy. Understand how to navigate around an optics lab with clear descriptions of the most common optical components and tools. Including explanations of basic optics and photonics, and easy-to-understand mathematics, this is an invaluable resource for graduate students, instructors, researchers and professionals who use or teach optical measurements in laboratories.

Offers more than 360,000 words and 550,000 translations and explores idiomatic variations in meaning.

In a very different future world, a physicist who has morphed into a 2-D, anti-matter monster because of a failed fission experiment plots his revenge against

the Nibiruan scientists who forcibly trapped him between the past and the future. There is no question that Noxtrademon has gone completely mad. Meanwhile, a man has been born cosmically determined to reset The Great Galactic Synchronization Clock to the center of time. Eric Holmes, now thirty and locked up in a cell within the Paranormal Clinical Institute, has no idea that this is his destiny until he finds himself inside the inter-dimensional obelisk with a Jinn-like man who calls himself Freeman. As the evil Noxtrademon plots to trap The Master of the Universe so he and his malevolent time-ghost progeny can escape and destroy Earth, Eric and Freeman, with a minor assist from the United States Navy and Nibiruan space fighters, must do everything in their power to discombobulate Noxtrademon and his sadistic army—before it is too late. In this fast-paced science-fiction thriller, an intrepid hero existing millions upon millions of light years away from Earth embarks on a dangerous mission to fulfill his destiny and save the planet from destruction.

A revealing look at how user behavior is powering deep social divisions online—and how we might yet defeat political tribalism on social media In an era of increasing social isolation, platforms like Facebook and Twitter are among the most important tools we have to understand each other. We use social media as a mirror to decipher our place in society but, as Chris Bail explains, it functions more like a prism that distorts our identities, empowers

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status-seeking extremists, and renders moderates all but invisible. Breaking the Social Media Prism challenges common myths about echo chambers, foreign misinformation campaigns, and radicalizing algorithms, revealing that the solution to political tribalism lies deep inside ourselves. Drawing on innovative online experiments and in-depth interviews with social media users from across the political spectrum, this book explains why stepping outside of our echo chambers can make us more polarized, not less. Bail takes you inside the minds of online extremists through vivid narratives that trace their lives on the platforms and off—detailing how they dominate public discourse at the expense of the moderate majority. Wherever you stand on the spectrum of user behavior and political opinion, he offers fresh solutions to counter political tribalism from the bottom up and the top down. He introduces new apps and bots to help readers avoid misperceptions and engage in better conversations with the other side. Finally, he explores what the virtual public square might look like if we could hit "reset" and redesign social media from scratch through a first-of-its-kind experiment on a new social media platform built for scientific research. Providing data-driven recommendations for strengthening our social media connections, Breaking the Social Media Prism shows how to combat online polarization without deleting our accounts.

An international journal devoted to OCLC systems and services.

This book comprises a fascinating collection of contributions on the Merz telescopes in Italy that collectively offer the first survey on historical large refracting telescopes in the country, drawing on original documents and photographs. It opens with a general introduction on the importance of Merz telescopes in the history of astronomy and analyses of the local and international contexts in which the telescopes were made. After examination of an example of

the interaction between the maker and the astronomer in the construction and maintenance of these refractors, the history of the Merz telescopes at the main Italian observatories in the nineteenth century is described in detail. Expert testimony is also provided on how these telescopes were successfully used until the second half of the twentieth century for research purposes, thus proving their excellent optical qualities.

The papers in this volume are the refereed papers presented at AI-2016, the Thirty-sixth SGA International Conference on Innovative Techniques and Applications of Artificial Intelligence, held in Cambridge in December 2016 in both the technical and the application streams. They present new and innovative developments and applications, divided into technical stream sections on Knowledge Discovery and Data Mining, Sentiment Analysis and Recommendation, Machine Learning, AI Techniques, and Natural Language Processing, followed by application stream sections on AI for Medicine and Disability, Legal Liability and Finance, Telecoms and eLearning, and Genetic Algorithms in Action. The volume also includes the text of short papers presented as posters at the conference. This is the thirty-third volume in the Research and Development in Intelligent Systems series, which also incorporates the twenty-fourth volume in the Applications and Innovations in Intelligent Systems series. These series are essential reading for those who wish to keep up to date with

developments in this important field.

Originally published in 1929, this informative textbook, aimed at school students, provides a reliable introduction on the subject of light. The book was written because the subject, 'which, at the university, proves to be full of lively interest, is too often at school a dreary grind of thinly disguised geometry' and 'much of value is lost in this way'. Offering a vibrant account of electromagnetic theory of radiation and an 'explanation of nearly all the phenomena hitherto investigated', this book presents 'an alternative approach to the subject'. Chapters are detailed and broad in scope; chapter titles include, 'The behaviour of light', 'The velocity of light' and 'Sources of light'. Notably, the wave concept is used as the means of approach and multiple examples are included at the back for reference. This book will be of significant value to anyone with an interest in optics and the history of education.

The Basic Math Irm Cd V2. 5Thomson Practical Hints on the Selection and Use of the Microscope Intended for Beginners Optical Measurements for Scientists and Engineers A Practical Guide Cambridge University Press

This book, as the outcome of the COST-728/NetFAM workshop, focuses on the following main topics: 1) on-line coupled meteorology-chemistry modelling with two-way feedbacks, 2) off-line coupled modelling and interfaces, 3) validation and

case studies including air quality related episodes, and 4) integration of atmospheric chemical transport (ACT) models with numerical weather prediction (NWP). This book is one of the first attempts to give an overall look on such integrated meso-meteorology and chemistry modelling approach. It reviews the current situation with the on-line and off-line coupling of mesoscale meteorological and ACT models worldwide as well as discusses advantages and shortcomings, best practices, and gives recommendations for on-line and off-line coupling of NWP and ACT models, implementation strategy for different feedback mechanisms, direct and indirect effects of aerosols and advanced interfaces between both types of models. The book is oriented towards numerical weather prediction and air quality modelling communities.

This fifth edition of Principles of Lasers includes corrections to the previous edition as well as being the first available as an ebook. Its mission remains to provide a broad, unified description of laser behavior, physics, technology, and applications.

At least 5.6 million to 8 million--nearly one in five--older adults in America have one or more mental health and substance use conditions, which present unique challenges for their care. With the number of adults age 65 and older projected to soar from 40.3 million in 2010 to 72.1 million by 2030, the aging of America holds

profound consequences for the nation. For decades, policymakers have been warned that the nation's health care workforce is ill-equipped to care for a rapidly growing and increasingly diverse population. In the specific disciplines of mental health and substance use, there have been similar warnings about serious workforce shortages, insufficient workforce diversity, and lack of basic competence and core knowledge in key areas. Following its 2008 report highlighting the urgency of expanding and strengthening the geriatric health care workforce, the IOM was asked by the Department of Health and Human Services to undertake a complementary study on the geriatric mental health and substance use workforce. The *Mental Health and Substance Use Workforce for Older Adults: In Whose Hands?* assesses the needs of this population and the workforce that serves it. The breadth and magnitude of inadequate workforce training and personnel shortages have grown to such proportions, says the committee, that no single approach, nor a few isolated changes in disparate federal agencies or programs, can adequately address the issue. Overcoming these challenges will require focused and coordinated action by all.

In a world where magic is tightly controlled, the most powerful man in history must choose between his kingdom and his son in the first book in the epic NYT bestselling *Lightbringer* series. Guile is the Prism. He is high priest and emperor,

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a man whose power, wit, and charm are all that preserves a tenuous peace. Yet Prisms never last, and Guile knows exactly how long he has left to live. When Guile discovers he has a son, born in a far kingdom after the war that put him in power, he must decide how much he's willing to pay to protect a secret that could tear his world apart. If you loved the action and adventure of the Night Angel trilogy, you will devour this incredible epic fantasy series by Brent Weeks.

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