

## **Astrophotography On The Cheap Scitation**

Lunar and Planetary Webcam User's Guide  
Method and Appraisal in the Physical Sciences  
Musical Acoustics: Violin family functions  
Adaptive Optics in Astronomy  
Numerical Simulation of Optical Wave Propagation with Examples in MATLAB  
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The Titius-Bode Law of Planetary Distances  
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Encyclopedia of Urban Legends, 2nd Edition [2 volumes]  
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Contemporary Optical Image Processing with MATLAB  
Geology of Utah's Parks and Monuments  
Applied Solar Energy  
Way Beyond Monochrome  
The Emergence of the American Mathematical Research Community, 1876-1900  
The Physics of Solar Cells  
The Liquid Phase  
Routing for Wireless Multi-Hop Networks  
Vistas in Astronomy

## **Lunar and Planetary Webcam User's Guide**

Photovoltaics, the direct conversion of light from the sun into electricity, is an increasingly important means of distributed power generation. The SPICE modelling tool is typically used in the development of electrical and electronic circuits. When applied to the modelling of PV systems it provides a means of understanding and evaluating the performance of solar cells and systems. The majority of books currently on the market are based around discussion of the solar cell as semiconductor devices rather than as a system to be modelled and applied to real-world problems. Castaner and Silvestre provide a comprehensive treatment of PV system technology analysis. Using SPICE, the tool of choice for circuits and electronics designers, this book highlights the increasing importance of modelling techniques in the quantitative analysis of PV systems. This unique treatment presents both students and professional engineers, with the means to understand, evaluate and develop their own PV modules and systems. \* Provides a unique, self-contained, guide to the modelling and design of PV systems \* Presents a practical, application oriented approach to PV technology, something that is missing from the current literature \* Uses the widely known SPICE circuit-modelling tool to analyse and simulate the performance of PV modules for the first time \* Written by respected and well-known academics in the field

## **Method and Appraisal in the Physical Sciences**

The focus of this brief is to identify what unifies and what distinguishes the routing functions in four wireless multi-hop network paradigms. The brief introduces a generic routing model that can be used as a foundation of wireless multi-hop routing protocol analysis and design. It demonstrates that such model can be adopted by any wireless multi-hop routing protocol. Also presented is a glimpse of the ideal wireless multi-hop routing protocol along with several open issues.

## **Musical Acoustics: Violin family functions**

'Bite-sized, cutting edge science delivered with enormous enthusiasm - all you need to travel the cosmos' CHRIS LINTOTT 'A lot of astrophysics is packed into this neat little book . . . I guarantee you will come away knowing your dark matter from your supermassive black holes' JIM AL-KHALILI This book is for anyone who wants to easily understand the mind-blowing fundamentals of our extraordinary, expanding universe. Written by Oxford astrophysicist Dr Becky Smethurst and composed of ten captivating, simple essays, it guides you swiftly through the galaxies, explaining the mysteries of black holes, dark matter and what existed before the Big Bang, presenting the evidence as to whether we really are alone, illuminating what we still don't know, and much more besides. If you have big

questions about Space, this book will provide you with the answers in an engaging and succinct way.

### **Adaptive Optics in Astronomy**

Adaptive optics is set to revolutionise the future of astronomy; this is the first book on the subject and is set to become the standard reference.

### **Numerical Simulation of Optical Wave Propagation with Examples in MATLAB**

From the big bang to black holes, this fast-paced illustrated tour of time and space for the astro-curious unlocks the science of the stars to reveal fascinating theories, surprising discoveries, and ongoing mysteries in modern astronomy and astrophysics. Before the big bang, time, space, and matter didn't exist. In the 14 billion years since, scientists have pointed their telescopes upward, peering outward in space and backward in time, developing and refining theories to explain the weird and wonderful phenomena they observed. Through these observations, we now understand concepts like the size of the universe (still expanding), the distance to the next-nearest star from earth (Alpha Centauri, 26 trillion miles) and what drives the formation of elements (nuclear fusion), planets and galaxies

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(gravity), and black holes (gravitational collapse). But are these cosmological questions definitively answered or is there more to discover? Oxford University astrophysicist and popular YouTube personality Dr. Becky Smethurst presents everything you need to know about the universe in ten accessible and engagingly illustrated lessons. In *Space at the Speed of Light: The History of 14 Billion Years for People Short on Time*, she guides you through fundamental questions, both answered and unanswered, posed by space scientists. Why does gravity matter? How do we know the big bang happened? What is dark matter? Do aliens exist? Why is the sky dark at night? If you have ever looked up at night and wondered how it all works, you will find answers--and many more questions--in this pocket-sized tour of the universe!

### **The Neptune File**

The Titius-Bode Law of Planetary Distances: Its History and Theory is a 15-chapter book that first discusses the prehistory of the Law from Kepler to Kant. The next chapter details the formulation of the Titius-Bode Law. Subsequent chapters describe the Law's early successes and failures, early modifications of the Law, the Blagg-Richardson formulation, and the significance of the Law with respect to the origin of the solar system. Other chapters discuss the theories of all types that have been proposed to explain the "classical Titius-Bode Law", i.e. the geometric progression.

## **Atlas of Practical Mohs Histopathology**

This book is a joint project of the Utah Division of Indian Affairs and the Utah State Historical Society. It is distributed to the book trade by Utah State University Press. The valleys, mountains, and deserts of Utah have been home to native peoples for thousands of years. Like peoples around the world, Utah's native inhabitants organized themselves in family units, groups, bands, clans, and tribes. Today, six Indian tribes in Utah are recognized as official entities. They include the Northwestern Shoshone, the Goshutes, the Paiutes, the Utes, the White Mesa or Southern Utes, and the Navajos (Dineh). Each tribe has its own government. Tribe members are citizens of Utah and the United States; however, lines of distinction both within the tribes and with the greater society at large have not always been clear. Migration, interaction, war, trade, intermarriage, common threats, and challenges have made relationships and affiliations more fluid than might be expected. In this volume, the editor and authors endeavor to write the history of Utah's first residents from an Indian perspective. An introductory chapter provides an overview of Utah's American Indians and a concluding chapter summarizes the issues and concerns of contemporary Indians and their leaders. Chapters on each of the six tribes look at origin stories, religion, politics, education, folkways, family life, social activities, economic issues, and important events. They provide an introduction to the rich heritage of Utah's native peoples. This book includes chapters by David Begay, Dennis Defa, Clifford Duncan, Ronald Holt, Nancy

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Maryboy, Robert McPherson, Mae Parry, Gary Tom, and Mary Jane Yazzie. Forrest Cuch was born and raised on the Uintah and Ouray Ute Indian Reservation in northeastern Utah. He graduated from Westminster College in 1973 with a bachelor of arts degree in behavioral sciences. He served as education director for the Ute Indian Tribe from 1973 to 1988. From 1988 to 1994 he was employed by the Wampanoag Tribe in Gay Head, Massachusetts, first as a planner and then as tribal administrator. Since October 1997 he has been director of the Utah Division of Indian Affairs.

### **The Astronomy Cafe**

A colourful history of 170 years of scientific discovery at the United States Naval Observatory.

### **Physics for Technology**

The new edition of this thoroughly considered textbook provides a reliable, accessible and comprehensive guide for students of photovoltaic applications and renewable energy engineering. Written by a group of award-winning authors it is brimming with information and is carefully designed to meet the needs of its readers. Along with exercises and references at the end of each chapter, it

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features a set of detailed technical appendices that provide essential equations, data sources and standards. The new edition has been fully updated with the latest information on photovoltaic cells, modules, applications and policy. Starting from basics with 'The Characteristics of Sunlight' the reader is guided step-by-step through semiconductors and p-n junctions; the behaviour of solar cells; cell properties and design; and PV cell interconnection and module fabrication. The book covers stand-alone photovoltaic systems; specific purpose photovoltaic systems; remote area power supply systems; grid-connected photovoltaic systems and water pumping. Applied Photovoltaics is highly illustrated and very accessible, providing the reader with all the information needed to start working with photovoltaics.

### **Linear Associative Algebra**

An introduction to the physics of the photovoltaic cell. It covers the fundamental principles of semiconductor physics and simple models used to describe solar cell operation. It presents theoretical approaches to efficient solar cell design and examines the main practical types of solar cell

### **Astrophotography for the Amateur**

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In recent years there has been an increasing demand for research evaluation within universities and other research-based organisations. In parallel, there has been an increasing recognition that traditional citation-based indicators are not able to reflect the societal impacts of research and are slow to appear. This has led to the creation of new indicators for different types of research impact as well as timelier indicators, mainly derived from the Web. These indicators have been called altmetrics, webometrics or just web metrics. This book describes and evaluates a range of web indicators for aspects of societal or scholarly impact, discusses the theory and practice of using and evaluating web indicators for research assessment and outlines practical strategies for obtaining many web indicators. In addition to describing impact indicators for traditional scholarly outputs, such as journal articles and monographs, it also covers indicators for videos, datasets, software and other non-standard scholarly outputs. The book describes strategies to analyse web indicators for individual publications as well as to compare the impacts of groups of publications. The practical part of the book includes descriptions of how to use the free software Webometric Analyst to gather and analyse web data. This book is written for information science undergraduate and Master's students that are learning about alternative indicators or scientometrics as well as Ph.D. students and other researchers and practitioners using indicators to help assess research impact or to study scholarly communication.

### **Space: 10 Things You Should Know**

Funded by the National Science Foundation, Lecture-Tutorials for Introductory Astronomy is designed to help make large lecture-format courses more interactive with easy-to-implement student activities that can be integrated into existing course structures. The Second Edition of the Lecture-Tutorials for Introductory Astronomy contains nine new activities that focus on planetary science, system related topics, and the interactions of Light and matter. These new activities have been created using the same rigorous class-test development process that was used for the highly successful first edition. Each of the 38 Lecture-Tutorials, presented in a classroom-ready format, challenges students with a series of carefully designed questions that spark classroom discussion, engage students in critical reasoning, and require no equipment. The Night Sky: Position, Motion, Seasonal Stars, Solar vs. Sidereal Day, Ecliptic, Star Charts. Fundamentals of Astronomy: Kepler's 2nd Law, Kepler's 3rd Law, Newton's Laws and Gravity, Apparent and Absolute Magnitudes of Stars, The Parsec, Parallax and Distance, Spectroscopic Parallax. Nature of Light in Astronomy: The Electromagnetic (EM) Spectrum of Light, Telescopes and Earth's Atmosphere, Luminosity, Temperature and Size, Blackbody Radiation, Types of Spectra, Light and Atoms, Analyzing Spectra, Doppler Shift. Our Solar System: The Cause of Moon Phases, Predicting Moon Phases, Path of Sun, Seasons, Observing Retrograde Motion, Earth's Changing Surface, Temperature and Formation of Our Solar System, Sun Size.

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Stars Galaxies and Beyond: H-R Diagram, Star Formation and Lifetimes, Binary Stars, The Motion of Extrasolar Planets, Stellar Evolution, Milky Way Scales, Galaxy Classification, Looking at Distant Objects, Expansion of the Universe. For all readers interested in astronomy.

### **Lecture Tutorials for Introductory Astronomy**

General geology papers and road logs for the Millenium Field Conference in Utah.

### **Pinhole Photography**

### **The Winnipeg Country**

Organized around such topics as the sun, the origin of the universe, the solar system, telescopes and star gazing, and strange sightings, "The Astronomy Cafe" enables readers to quickly find a question similar to their own and get an answer--without having to wade through long, technical essays. Color photos. Illustrations. Glossary. Index.

### **Modelling Photovoltaic Systems Using PSpice**

### **Electronic Circuit Guidebook**

This book gives an account of certain observed irregularities on the rotation of the Earth, both in its rate of rotation (giving a variable length of day) and in the position of its axis. These irregularities are caused by events on and within the Earth and provide a means of studying a number of geophysical problems. Seasonal shifts in air masses and variable winds are causes of short-period fluctuations in the rotation. Climatic changes and their attendant sea levels are in part responsible for long-term fluctuations. Modern observations of the Moon and descriptions of ancient eclipses both establish a secular increase in the length of day. The interpretation involves atmospheric, oceanic and bodily tides. The book provides a unified treatment of the rotation of the Earth, making this method of studying geophysical phenomena more readily accessible to geophysicists and others.

### **Physics**

Now in paperback, "The Neptune File" is the first account of the dramatic events surrounding the discovery of the solar system's eighth planet, and the story of two men who were able to see on paper what astronomers looking through telescopes

for 200 years did not.

### **History Of Utah's American Indians**

In the last few years, digital SLR cameras have taken the astrophotography world by storm. It is now easier to photograph the stars than ever before! They are compact and portable, flexible to adapt with different lenses and for telescope use, and above all DSLR cameras are easy and enjoyable to use. In this concise guide, experienced astrophotography expert Michael Covington outlines the simple, enduring basics that will enable you to get started, and help you get the most from your equipment. He covers a wide selection of equipment, simple and advanced projects, technical considerations and image processing techniques. Unlike other astrophotography books, this one focuses specifically on DSLR cameras, not astronomical CCDs, non-DSLR digital cameras, or film. This guide is ideal for astrophotographers who wish to develop their skills using DSLR cameras and as a friendly introduction to amateur astronomers or photographers curious about photographing the night sky.

### **Space at the Speed of Light**

This text provides a quantitative introduction to general relativity for advanced

undergraduate and graduate students.

## **Peer Review and Manuscript Management in Scientific Journals**

## **The Titius-Bode Law of Planetary Distances**

## **The Rotation of the Earth**

Vol. 9 is a record of the first joint symposium of the International Astronomical Union and the Union internationale d'histoire et de philosophie des sciences, held at the University of Hamburg, Aug. 22-24, 1964.

## **Charles Olivier and the Rise of Meteor Science**

This book de-mystifies the jargon of webcams and computer processing, and provides detailed hints and tips for imaging the Sun, Moon and planets with a webcam. It demonstrates how inexpensive tools are revolutionizing imaging in amateur astronomy. Anyone with a modest telescope and a webcam can now obtain jaw-dropping lunar and planetary images to rival those taken with mid-

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range astronomical CCD cameras costing thousands of dollars. A glance through the images in this book shows just what spectacular results can be achieved by using a webcam with your telescope! Your scientific results will be sought by professional astronomers.

### **Gravitation and Spacetime**

New to this edition: almost double the content a new section discussing the path from visualization to print, illustrating the interaction between eye and brain, explaining the rules of composition and when to break them to produce photographs with impact a new section on presentation including hands-on mounting, matting, spotting, and framing image capture has a more in-depth focus, now covering pinhole photography and digital capture now includes making and printing with digital negatives a new section discussing the pros and cons of typical image-taking and image-making equipment plus new do-it-yourself projects, including many darkroom tools and an electronic shutter tester a useful collection of templates, to copy, -

### **Encyclopedia of Urban Legends, 2nd Edition [2 volumes]**

This fascinating portrait of an amateur astronomy movement tells the story of how

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Charles Olivier recruited a hard-working cadre of citizen scientists to rehabilitate the study of meteors. By 1936, Olivier and members of his American Meteor Society had succeeded in disproving an erroneous idea about meteor showers. Using careful observations, they restored the public's trust in predictions about periodic showers and renewed respect for meteor astronomy among professional astronomers in the United States. Charles Olivier and his society of observers who were passionate about watching for meteors in the night sky left a major impact on the field. In addition to describing Olivier's career and describing his struggles with competitive colleagues in a hostile scientific climate, the author provides biographies of some of the scores of women and men of all ages who aided Olivier in making shower observations, from the Leonids and Perseids and others. Half of these amateur volunteers were from 13 to 25 years of age. Their work allowed Olivier and the AMS to contradict the fallacious belief in stationary and long-enduring meteor showers, bringing the theory of their origin into alignment with celestial mechanics. Thanks to Olivier and his collaborators, the study of meteors took a great leap forward in the twentieth century to earn a place as a worthy topic of study among professional astronomers.

### **Sky and Ocean Joined**

## **Digital SLR Astrophotography**

This is a volume of studies on the problems of theory-appraisal in the physical sciences.

## **Applied Photovoltaics**

## **Web Indicators for Research Evaluation**

Numerical Simulation of Optical Wave Propagation is solely dedicated to wave-optics simulations. The book discusses digital Fourier transforms (FT), FT-based operations, multiple methods of wave-optics simulations, sampling requirements, and simulations in atmospheric turbulence.

## **Quarks, Quasars, and Quandaries**

## **Contemporary Optical Image Processing with MATLAB**

A poor boy who longs to paint is given a magic brush that brings to life whatever

he pictures.

### **Geology of Utah's Parks and Monuments**

Mohs surgery is microscopically controlled surgery used to treat common types of skin cancer and allows for the removal of a skin cancer with a very narrow surgical margin and a high cure rate. However, for those involved with the Mohs procedure, it is critical to understand the optimal preparation and interpretation of frozen sections. Complete with hundreds of high resolution figures, Atlas of Practical Mohs Histopathology is written by leading experts in the field and discusses everything from normal skin histology and rare tumors to pitfalls and incidental findings. Dermatologic surgeons, Mohs cutaneous surgeons, dermatopathologists and pathologists alike will find this book to be a comprehensive and indispensable reference.

### **Applied Solar Energy**

This book serves two purposes: first to introduce readers to the concepts of geometrical optics, physical optics and techniques of optical imaging and image processing, and secondly to provide them with experience in modeling the theory and applications using the commonly used software tool MATLAB®. A

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comprehensively revised version of the authors' earlier book Principles of Applied Optics, Contemporary Optical Image Processing with MATLAB brings out the systems aspect of optics. This includes ray optics, Fourier Optics, Gaussian beam propagation, the split-step beam propagation method, holography and complex spatial filtering, ray theory of holograms, optical scanning holography, acousto-optic image processing, edge enhancement and correlation using photorefractive materials, holographic phase distortion correction, to name a few. MATLAB examples are given throughout the text. MATLAB is emphasized since it is now a widely accepted software tool very routinely used in signal processing. A sizeable portion of this book is based on the authors' own in-class presentations, as well as research in the area. Instructive problems and MATLAB assignments are included at the end of each Chapter to enhance even further the value of this book to its readers. MATLAB is a registered trademark of The MathWorks, Inc.

### **Way Beyond Monochrome**

This comprehensive yet concise book provides a thorough and complete guide to every aspect of managing the peer review process for scientific journals. Until now, little information has been readily available on how this important facet of the journal publishing process should be conducted properly. Peer Review and Manuscript Management in Scientific Journals fills this gap and provides clear guidance on all aspects of peer review, from manuscript submission to final

decision. Peer Review and Manuscript Management in Scientific Journals is an essential reference for science journal editors, editorial office staff and publishers. It is an invaluable handbook for the set-up of new Editorial Offices, as well as a useful reference for well-established journals which may need guidance on a particular situation, or may want to review their current practices. Although intended primarily for journals in science, much of its content will be relevant to other scholarly areas. ?This wonderful work by Dr. Hames can be used as a textbook in courses for both experienced and novice editors, and I trust that it is what Dr. Hames intended when she prepared this beautiful book. Every scientific editor should read it.? Journal of Educational Evaluation for Health Professionals, 2008 This book is co-published with the Association of Learned and Professional Society Publishers (ALPSP) ([www.alpsp.org](http://www.alpsp.org)) ALPSP members are entitled to a 30% discount on this book.

### **The Emergence of the American Mathematical Research Community, 1876-1900**

This book is about the basics of digital electronics, covering the fundamental circuits that make up all digital products. Coverage includes logic gates, flip-flops, counters, and more.

### **The Physics of Solar Cells**

First published in 1999, this is an expanded and updated edition of the best-selling, standard handbook on astrophotography for amateurs.

### **The Liquid Phase**

This revised edition of the original reference standard for urban legends provides an updated anthology of common myths and stories, and presents expanded coverage of international legends and tales shared and popularized online. • Approximately 300 individual entries for specific urban legends • An introduction provides a brief history of urban legend research • A selected bibliography and reference citations

### **Routing for Wireless Multi-Hop Networks**

'Pinhole Photography' is both an entertaining illustrated history and a practical handbook for this photographic technique. This new edition has been expanded to include further instructional information on pinhole practices.

### **Vistas in Astronomy**

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This volume traces the transformation of the United States from a mathematical backwater to a major presence during the quarter-century from 1876 to 1900. Presenting a detailed study of the major figures involved in this transformation, it focuses on the three most influential individuals--the British algebraist James Joseph Sylvester, the German standard-bearer Felix Klein, and the American mathematician Eliakim Hastings Moore--and on the principal institutions with which they were associated--the Johns Hopkins University, Gottingen University, and the University of Chicago. This book further analyzes the research traditions these men and their institutions represented, the impact they had on the second generation of American mathematical researchers, and the role of the American Mathematical Society in these developments. This is the first work ever written on the history of American mathematics during this period and one of the few books that examines the historical development of American mathematics from a wide perspective. By placing the development of American mathematics within the context of broader external factors affecting historical events, the authors show how the character of American research was decisively affected by the surrounding scientific, educational, and social contexts of the period. Aimed at a general mathematical audience and at historians of science, this book contains an abundance of unpublished archival material, numerous rare photographs, and an extensive bibliography.

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