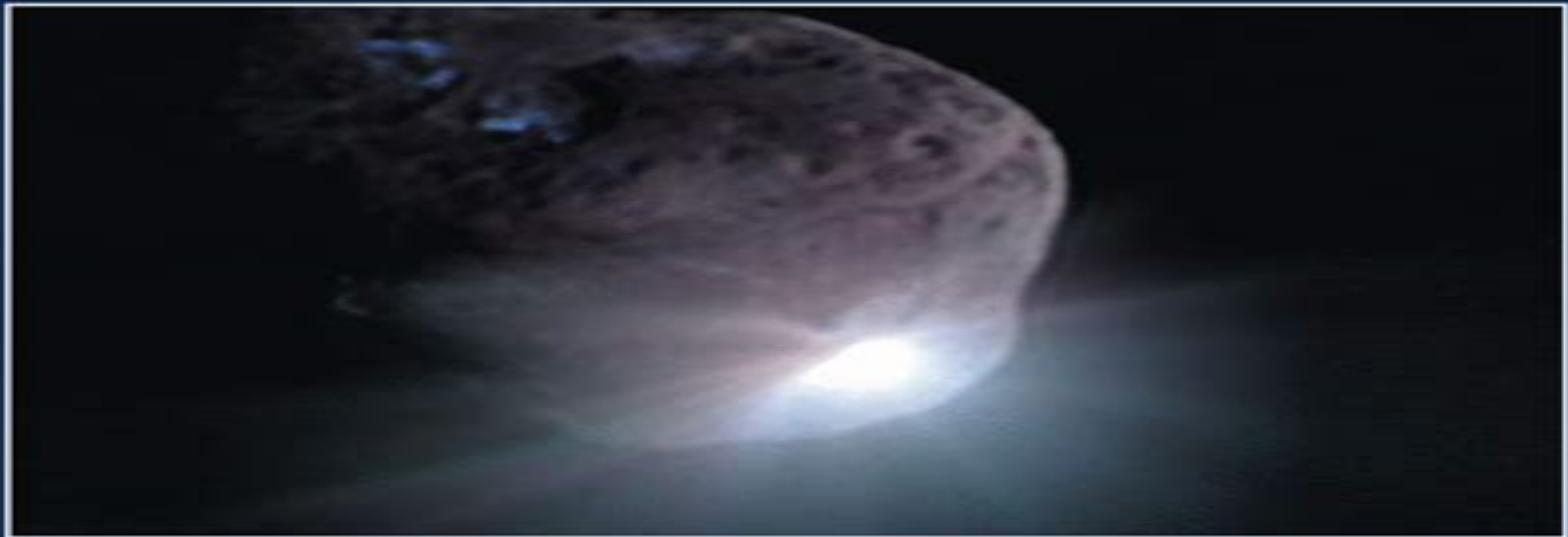




Jean-Luc Starck
Fionn Murtagh

Astronomical Image and Data Analysis

Second Edition



 Springer

Astronomical Image And Data Analysis Astronomy And Astrophysics Library

J.-L. Starck, F. Murtagh



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Astronomical Image and Data Analysis J.-L. Starck, F. Murtagh, 2007-06-21 With information and scale as central themes this comprehensive survey explains how to handle real problems in astronomical data analysis using a modern arsenal of powerful techniques It treats those innovative methods of image signal and data processing that are proving to be both effective and widely relevant The authors are leaders in this rapidly developing field and draw upon decades of experience They have been playing leading roles in international projects such as the Virtual Observatory and the Grid The book addresses not only students and professional astronomers and astrophysicists but also serious amateur astronomers and specialists in earth observation medical imaging and data mining The coverage includes chapters or appendices on detection and filtering image compression multichannel multiscale and catalog data analytical methods wavelets transforms Picard iteration and software tools This second edition of Starck and Murtagh's highly appreciated reference again deals with topics that are at or beyond the state of the art It presents material which is more algorithmically oriented than most alternatives and broaches new areas like ridgelet and curvelet transforms Throughout the book various additions and updates have been made

Progress in Pattern Recognition, Image Analysis, Computer Vision, and Applications José Ruiz-Shulcloper, Gabriella Sanniti di Baja, 2013-11-04 The two volume set LNCS 8258 and 8259 constitutes the refereed proceedings of the 18th Iberoamerican Congress on Pattern Recognition CIARP 2013 held in Havana Cuba in November 2013 The 137 papers presented together with two keynotes were carefully reviewed and selected from 262 submissions The papers are organized in topical sections on mathematical theory of PR supervised and unsupervised classification feature or instance selection for classification image analysis and retrieval signals analysis and processing applications of pattern recognition biometrics video analysis and data mining

Measurements and Instrumentation for Machine Vision Oleg Sergiyenko, Wendy Flores-Fuentes, Julio Rodriguez-Quinonez, Jesús E Miranda-Vega, 2024-06-26 A comprehensive reference book that addresses the field of machine vision and its significance in cyber physical systems It explores the multidisciplinary nature of machine vision involving electronic and mechatronic devices artificial intelligence algorithms embedded systems control systems robotics interconnectivity data science and cloud computing The book aims to provide advanced students early career researchers and established scholars with state of the art knowledge and novel content related to the implementation of machine vision in engineering scientific knowledge and technological innovation The chapters of the book delve into various topics and applications within the realm of machine vision They cover areas such as camera and inertial measurement unit calibration technical vision systems for human detection design and evaluation of support systems using neural networks UV sensing in contemporary applications fiber Bragg grating arrays for medical diagnosis color model creation for terrain recognition by robots navigation systems for aircraft object classification in infrared images feature selection for vehicle non vehicle classification visualization of sedimentation in extreme conditions quality estimation of tea using machine vision

image dataset augmentation techniques machine vision for astronomical images agricultural automation occlusion aware disparity based visual servoing machine learning approaches for single photon imaging and augmented visual inertial wheel odometry Each chapter is a result of expert research and collaboration reviewed by peers and consulted by the book's editorial board The authors provide in depth reviews of the state of the art and present novel proposals contributing to the development and futurist trends in the field of machine vision Measurements and Instrumentation for Machine Vision serves as a valuable resource for researchers students and professionals seeking to explore and implement machine vision technologies in various domains promoting sustainability human centered solutions and global problem solving

Encyclopedia of Astrobiology Muriel Gargaud, William M. Irvine, Ricardo Amils, Philippe Claeys, Henderson James Cleaves, Maryvonne Gerin, Daniel Rouan, Tilman Spohn, Stéphane Tirard, Michel Viso, 2023-07-27 Now in its third edition the Encyclopedia of Astrobiology serves as the key to a common understanding in the extremely interdisciplinary community of astrobiologists Each new or experienced researcher and graduate student in adjacent fields of astrobiology will appreciate this reference work in the quest to understand the big picture The carefully selected group of active researchers contributing to this work are aiming to give a comprehensive international perspective on and to accelerate the interdisciplinary advance of astrobiology The interdisciplinary field of astrobiology constitutes a joint arena where provocative discoveries are coalescing concerning e g the prevalence of exoplanets the diversity and hardiness of life and its chances for emergence Biologists astrophysicists bio chemists geoscientists and space scientists share this exciting mission of revealing the origin and commonality of life in the Universe With its overview articles and its definitions the Encyclopedia of Astrobiology not only provides a common language and understanding for the members of the different disciplines but also serves for educating a new generation of young astrobiologists who are no longer separated by the jargon of individual scientific disciplines This new edition offers 170 new entries More than half of the existing entries were updated expanded or supplemented with figures supporting the understanding of the text Especially in the fields of astrochemistry and terrestrial extremophiles but also in exoplanets and space sciences in general there is a huge body of new results that have been taken into account in this new edition Because the entries in the Encyclopedia are in alphabetical order without regard for scientific field this edition includes a section Astrobiology by Discipline which lists the entries by scientific field and subfield This should be particularly helpful to those enquiring about astrobiology as it illustrates the broad and detailed nature of the field

Eclipsing Binary Stars: Modeling and Analysis Josef Kallrath, Eugene F. Milone, 2009-08-14 Have you ever stopped at a construction project on the way to your office and the day's astrophysics Remember the other onlookers folks just enjoying the spectacle as we all do in following developments away from our areas of active work We are excited and thrilled when the Hubble Space Telescope discovers an Einstein Cross when the marvelous pulsars enter our lives and when computer scientists put a little box on our desk that outperforms yesterday's giant machines We are free to make use of such

achievements and we respect the imagination and discipline needed to bring them about just as onlookers respect the abilities and planning needed to create a building they may later use After all each of us contributes in our own areas as best as we can In addition to the serious onlookers there will be passersby who take only a casual look at the site They may use the building later but have little or no interest in its construction and give no thought to the resources needed to bring it to completion Upon arriving at work those persons write astronomy and astrophysics books at various levels in which they must say something about close binary stars Usually a page or two will do and the emphasis is on the MLR mass luminosity radius data obtained only from binaries

Relativistic Astrophysics and Cosmology Peter Hoyng, 2007-01-10 Relativistic Astrophysics and Cosmology offers a succinct and self contained treatment of general relativity and its application to compact objects gravitational waves and cosmology The required mathematical concepts are introduced informally following geometrical intuition as much as possible The approach is theoretical but there is ample discussion of observational aspects and of instrumental issues where appropriate The book includes such topical issues as the Gravity Probe B mission interferometer detectors of gravitational waves and the physics behind the angular power spectrum of the cosmic microwave background CMB Written for advanced undergraduates and beginning graduate students in astro physics it is ideally suited for a lecture course and contains 140 exercises with extensive hints The reader is assumed to be familiar with linear algebra and analysis ordinary differential equations special relativity and basic thermal physics

Astrophysical Formulae Kenneth Lang, 2006-02-22 This classic reference for the fundamental formulae of physics and astrophysics has become part of nearly every astronomers and astrophysicists library A magnificent compendium OPTICA ACTA ON THE FIRST EDITION

Astrophysical Formulae Kenneth R. Lang, 2013-12-21 This volume is a reference source of fundamental formulae in physics and astrophysics In contrast to most of the usual compendia it carefully explains the physical assumptions entering the formulae All the important results of physical theories are covered electrodynamics hydrodynamics general relativity atomic and nuclear physics and so on Over 2100 formulae are included and the original papers for the formulae are cited together with papers on modern applications in a bibliography of over 1900 entries For this new edition a chapter on space time matter and cosmology has been included and the other chapters have been carefully revised

The Sun Michael Stix, 2012-12-06 A wealth of new experimental and theoretical results has been obtained in solar physics since the first edition of this textbook appeared in 1989 Thus all nine chapters have been thoroughly revised and about 100 pages and many new illustrations have been added to the text The additions include element diffusion in the solar interior the recent neutrino experiments methods of image restoration observational devices used for spectroscopy and polarimetry and new developments in helioseismology and numerical simulation The book takes particular advantage of the results of several recent space missions which lead to substantial progress in our understanding of the Sun from the deep interior to the corona and solar wind

The Interstellar Medium James Lequeux, 2005-08-29 Describing interstellar matter in our galaxy in

all of its various forms this book also considers the physical and chemical processes that are occurring within this matter The first seven chapters present the various components making up the interstellar matter and detail the ways that we are able to study them The following seven chapters are devoted to the physical chemical and dynamical processes that control the behaviour of interstellar matter These include the instabilities and cloud collapse processes that lead to the formation of stars The last chapter summarizes the transformations that can occur between the different phases of the interstellar medium Emphasizing methods over results The Interstellar Medium is written for graduate students for young astronomers and also for any researchers who have developed an interest in the interstellar medium *Astrophysics* Wolfgang

Kundt, 2004-11-22 Devised for a quantitative understanding of the physics of the universe from the solar system through the milky way to clusters of galaxies all the way to cosmology this acclaimed text offers among the most concise and most critical ones of extant works Special chapters are devoted to magnetic and radiation processes disks black hole candidacy bipolar flows cosmic rays gamma ray bursts image distortions and special sources At the same time planet earth is viewed as the arena for life with plants and animals having evolved to homo sapiens during cosmic time This text is unique in covering the basic qualitative and quantitative tools formulae as well as numbers needed to for the precise interpretation of frontline phenomena **The Universe in X-Rays** Joachim E. Trümper, Günther Hasinger, 2008-02-05 With contributions from leading

scientists in the field and edited by two of the most prominent astronomers of our time this is a totally authoritative volume on X ray astronomy that will be essential reading for everyone interested from students to astrophysicists and physicists All the aspects of this exciting area of study are covered from astronomical instrumentation to extragalactic X ray astronomy

Compact Objects in Astrophysics Max Camenzind, 2007-02-24 Modern comprehensive introduction and overview of the physics of White Dwarfs Neutron Stars and Black Holes including all relevant observations Contains a basic introduction to General Relativity including the modern 3+1 split of spacetime and of Einstein's equations The split is used for the first time to derive the structure equations for rapidly rotating neutron stars and Black Holes Detailed discussions and derivations of current theoretical results In particular also the most recent equations of state for neutron star matter are explained Topics such as colour superconductivity are discussed and used for modelling A book for graduate students and researchers Contains exercises and some solutions

The Early Universe Gerhard Börner, 2013-03-14 Fourteen years is a long time and especially in the field of cosmology new observational results and new theoretical ideas seem to appear at a steadily increasing rate It is a challenge to try to review the current status to give a reasonably fair account of new developments and not to increase the size of the book out of all proportion So this fourth edition is practically a new book with many chapters and sections newly written not just updated I have kept the original layout of the book with three parts concerned with I the standard model II some basic implications of quantum field theory and III questions of structure formation I have given special emphasis to the new observations of the anisotropies of the cosmic microwave background and attempted to explain

their importance for cosmology as well as for structure formation models There have also been improved measurements in almost every cosmologically relevant field from the Hubble constant to element abundances and galaxy distribution statistics Quite surprisingly the standard cosmological models can still accommodate all these new observations

Methods of Celestial Mechanics Gerhard Beutler, 2005-11-20 G Beutler's *Methods of Celestial Mechanics* is a coherent textbook for students as well as an excellent reference for practitioners The first volume gives a thorough treatment of celestial mechanics and presents all the necessary mathematical details that a professional would need The reader will appreciate the well written chapters on numerical solution techniques for ordinary differential equations as well as that on orbit determination In the second volume applications to the rotation of earth and moon to artificial earth satellites and to the planetary system are presented The author addresses all aspects that are of importance in high tech applications such as the detailed gravitational fields of all planets and the earth the oblateness of the earth the radiation pressure and the atmospheric drag The concluding part of this monumental treatise explains and details state of the art professional and thoroughly tested software for celestial mechanics

Magneto-Fluid Dynamics Paul Lorrain, Francois Lorrain, Stephane Houle, 2007-10-31 Magnetohydrodynamics MHD concerns the interaction between magnetic fields and conducting fluids We are concerned here with macroscopic interactions and when the conducting fluid is a plasma time scales are very much longer than the plasma period Plasma periods vary widely but are short say 10 second We prefer the term Magneto Fluid Dynamics MFD because the discipline concerns mostly plasmas various liquid conductors and the liquid part of the Earth's core It seems that the only applications of MFD to water are the induction of electric currents in the oceans by the Earth's magnetic field and ship propulsion But even MFD is not quite appropriate because that term also includes solid conductors that move in magnetic fields This book is meant for graduate and upper division undergraduate students in Physics Geophysics and Astrophysics as well as for practicing scientists in these fields This book is no more than a brief introduction to MFD because this vast subject is closely related to many others namely Astrophysics Electrodynamics Fluid Dynamics Geophysics Oceanography Plasma Physics Thermonuclear Fusion etc We sketch the fundamentals and provide many Examples as well as Case Studies related to natural phenomena MFD sorely needs a rethink it must of course be totally compatible with Physics On the contrary it is the custom to discuss the shapes of imaginary magnetic field lines without ever referring to the required electric currents

High-Redshift Galaxies Immo Appenzeller, 2009-06-17 The high redshift galaxies became a distinct research field during the final decade of the 20th century At that time the Lyman break technique made it possible to identify significant samples of such objects and the new generation of 8 to 10 m telescopes resulted in the first good spectroscopic data Today the high redshift galaxies have developed into one of the important topics of astrophysics accounting for about 5-10% of the publications in the major scientific journals devoted to astronomy Because high redshift galaxies is a rapidly developing field and since new results are published constantly writing a book on this topic

is challenging. On the other hand in view of the large amount of individual results now in the literature and in view of the still growing interest in this topic it appears worthwhile to summarize and evaluate the available data and to provide an introduction for those who wish to enter this field or who for various reasons might be interested in its results. The end of the first decade of the 21st century appears to be a good point in time to attempt such a summary. The current generation of ground based 8 to 10 m optical telescopes, the Hubble Space Telescope and the most important large radio telescopes have by now been in operation since about one or two decades. Although these instruments will continue to produce important scientific results for some time to come many of the initial programs exploiting their unique new possibilities have been completed.

Tools of Radio Astronomy Thomas Wilson, Kristen Rohlfs, Susanne Huettemeister, 2008-12-19 Four significant factors have led us to update this text. The first is the breathtaking progress in technology especially in receiver and digital techniques. The second is the advance of radio astronomy to shorter wavelengths and the increased availability of astronomical satellites. The third is a need to reorganize some of the chapters in order to separate the basic theory that seldom changes from practical aspects that change often. Finally it is our desire to enhance the text by including problem sets for each chapter. In view of this ambitious plan we have expanded the number of authors. In the reorganization of this edition we have divided Chap 4 of the 4th edition into two Chaps 4 and 5. The first remains Chap 4 with a slightly different title: Signal Processing and Receivers Theory. This was expanded to include digital processing and components including samplers and digitizers. In Chap 5 Practical Receiver Systems we have relegated the presentations of maser and parametric amplifier front ends which are no longer commonly used as microwave receivers in radio astronomy to a short section on historical developments and. We have retained and improved the presentations of current state of the art devices: cooled transistor and superconducting front ends. We have also included descriptions of local oscillators and phase lock loops. Chapters 5 and 6 in the 4th edition has now become Chap 6 Fundamentals of Antenna Theory and Chap 7 *Optical 3D-Spectroscopy for Astronomy*. Roland Bacon, Guy Monnet, 2017-06-19 DAS Referenzwerk mit aktuellen Informationen zu 3D Spektrographen die bei astronomischen Beobachtungen weit verbreitet sind beschäftigt sich mit Licht im sichtbaren, Nah-Infrarot und Nah-UV-Bereich. Erläutert die besten Beobachtungsstrategien und Instrumente und zeigt wie die erzielten Daten verwaltet werden.

Stellar Interiors Carl J. Hansen, Steven D Kawaler, Virginia Trimble, 2012-12-06 The first edition of this text appeared in 1994. Shortly after the third printing our editor suggested that we attempt a second edition because new developments in stellar structure and evolution had made our original work outdated. We, the original authors CJH and SDK, reluctantly agreed but with reservations due to the effort involved. Our initial reluctance disappeared when we were able to convince and cajole the arm of etc. our new coauthor colleague Virginia Trimble to join us. Welcome Virginia. We, i.e. all three of us, hope that you agree that the present edition is a great improvement compared to the 1994 effort. Our objectives in this edition are the same ones we set forth in 1994. What you will find is a text designed for our target audience: the typical senior undergraduate or

beginning graduate student in astronomy or astrophysics who wishes an overview of stellar structure and evolution with just enough detail to understand the general picture. She or he can go on from there to more specialized texts or directly to the research literature depending on talent and interests. To this end, this text presents the basic physical principles without chasing all the interesting details. For those of you familiar with the first edition, you will find that some things have not been changed substantially. Fama is still Fama while others decidedly have. For example, Chapter 2 has been completely rewritten.

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