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HARVEY WINTERS

Pitch Cambridge University Press

This volume is written by leading scientists in the field, who review the current state of our knowledge of tidal streams in the Milky Way, the Andromeda galaxy, and in

other nearby galaxies. The cosmological origins of dwarf galaxies and the physical processes by which they are tidally disrupted into streams and incorporated into galaxy halos are discussed. The techniques that have been used to identify tidal streams are presented and will be useful to researchers who would like to find substructures in the next generation of optical sky surveys, including Pan-

STARRS and LSST. The methods that are currently under development to constrain both large scale distribution of dark matter in the Milky Way and the (small scale) lumpiness of the dark matter distribution are also explained. The authors also provide motivation for future spectroscopic surveys of Milky Way halo stars, which will aid both in the identification of tidal streams and the

constraint of dark matter properties. This volume is aimed at graduate students who are beginning this field of research, but is also a resource for researchers who study tidal streams and related fields. In addition to presenting the physical processes by which tidal streams are created, it also reviews the current state of the observations and the progress towards utilizing these observations to constrain the distribution of dark matter in the Milky Way. The book will introduce anyone with a background in astrophysics to the field of tidal streams.

Bibliography of Ethnobotany Springer

The significance of the present IAU symposium, "The Large Scale Structure of the Universe", fortunately requires no elaboration by the editors. The quality of the wide range of observational and theoretical astrophysics contained in this volume speaks for itself. The published version of the proceedings contains all the contributions presented at the symposium with the exception of the introductory lecture by V. A. Ambartsumian.

Contributed papers, short contributions and discussions have been included according to the recommendations of the

IAU. Many people contributed to the success of the symposium. First of all, thanks are due to the USSR Academy of Sciences and to the Estonian Academy of Sciences for sponsoring this symposium in Tallinn. The efforts of Academician K. Rebane, President of the Estonian Academy of Sciences, are particularly appreciated. The astronomical hosts of the symposium were the members of the W. Struve Astrophysical Observatory of Tartu who made outstanding efforts to lavish participants with Estonian hospitality which was greatly appreciated and enjoyed by them and their guests. The members of the Scientific and Local Organising Committees are listed below and we thank all of them for their contributions which were central to the success of the symposium. In addition are listed members of the Technical Organising Committee who were responsible for all details of the organisation and whose vigilance ensured that all aspects of the symposium ran smoothly and efficiently. Their contributions are all gratefully acknowledged.

Numerical Computation of Internal and

External Flows, Volume 1 Yale University Press

New illustrated atlas on modern galaxy classification for astronomy researchers, students, and amateurs.

Atlas of Galaxies Springer

Thoroughly revised and expanded throughout, the new edition is a graduate-level text and reference book on gaseous nebulae, nova and supernova remnants. Much of the new data and new images are from the Hubble Space Telescope with two wholly new chapters being added along with other new features. The previous edition which was tried and tested for thirty years has now been succeeded by a revised, updated, larger edition, which will be valuable to anyone seriously interested in astrophysics.

The Galaxies of the Local Group Springer

The book is related to Beer forest area of Jhunjhunu district of Rajasthan and its floristic diversity, ethnobotanical study and antibacterial activity of two medicinal plants *Ruellia patula* and *Aristolochia bracteolata*. The book is valuable to students, teachers and research scholars. Various explorations or survey of the area was carried out for the collection of

photographs reported in this book. It is hoped that this book will help in the ethnobotanical study and pharmacology of medicinal plant species.

Reviews in Frontiers of Modern

Astrophysics Cambridge University Press

This book is intended to serve as a one-semester introductory course in number theory. Throughout the book a historical perspective has been adopted and emphasis is given to some of the subject's applied aspects; in particular the field of cryptography is highlighted. At the heart of the book are the major number theoretic accomplishments of Euclid, Fermat, Gauss, Legendre, and Euler, and to fully illustrate the properties of numbers and concepts developed in the text, a wealth of exercises have been included. It is assumed that the reader will have 'pencil in hand' and ready access to a calculator or computer. For students new to number theory, whatever their background, this is a stimulating and entertaining introduction to the subject.

The Realm of the Nebulae Springer

Science & Business Media

No modern astronomer made a more profound contribution to our

understanding of the cosmos than did Edwin Hubble, who first conclusively demonstrated that the universe is expanding. Basing his theory on the observation of the change in distant galaxies, called red shift, Hubble showed that this is a Doppler effect, or alteration in the wavelength of light, resulting from the rapid motion of celestial objects away from Earth. In 1935, Hubble described his principal observations and conclusions in the Silliman lectures at Yale University. These lectures were published the following year as "The Realm of the Nebulae," which quickly became a classic work.

The Premenstrual Syndromes Springer

Science & Business Media

Numerical Computation of Internal and External Flows Volume 2: Computational Methods for Inviscid and Viscous Flows C. Hirsch, Vrije Universiteit Brussel, Brussels, Belgium This second volume deals with the applications of computational methods to the problems of fluid dynamics. It complements the first volume to provide an excellent reference source in this vital and fast growing area. The author includes material on the numerical computation of

potential flows and on the most up-to-date methods for Euler and Navier-Stokes equations. The coverage is comprehensive and includes detailed discussion of numerical techniques and algorithms, including implementation topics such as boundary conditions. Problems are given at the end of each chapter and there are comprehensive reference lists. Of increasing interest, the subject has powerful implications in such crucial fields as aeronautics and industrial fluid dynamics. Striking a balance between theory and application, the combined volumes will be useful for an increasing number of courses, as well as to practitioners and researchers in computational fluid dynamics. Contents Preface Nomenclature Part V: The Numerical Computation of Potential Flows Chapter 13 The Mathematical Formulations of the Potential Flow Model Chapter 14 The Discretization of the Subsonic Potential Equation Chapter 15 The Computation of Stationary Transonic Potential Flows Part VI: The Numerical Solution of the System of Euler Equations Chapter 16 The Mathematical Formulation of the System of Euler Equations Chapter

17 The Lax - Wendroff Family of Space-centred Schemes Chapter 18 The Central Schemes with Independent Time Integration Chapter 19 The Treatment of Boundary Conditions Chapter 20 Upwind Schemes for the Euler Equations Chapter 21 Second-order Upwind and High-resolution Schemes Part VII: The Numerical Solution of the Navier-Stokes Equations Chapter 22 The Properties of the System of Navier-Stokes Equations Chapter 23 Discretization Methods for the Navier-Stokes Equations Index

Cosmic Matter Wiley

Inborn Disorders of Sphingolipid Metabolism is a collection of papers presented at the Third International Symposium on the Cerebral Sphingolipidoses and Allied Diseases, held at the Isaac Albert Research Institute of the Jewish Chronic Disease Hospital and at the State University of New York, Downstate Medical Center, on October 25 and 26, 1965. This book is organized into three parts encompassing 35 chapters. Part I deals first with electron microscopic, histochemical, and morphological investigations of certain sphingolipid metabolism disorders. This part also

examines several case reports on the features and symptoms of spongy degeneration of the central nervous system, familial leukodystrophy, adrenal insufficiency, and cutaneous melanosis. Part II surveys the metabolism, biosynthesis, and structure of gangliosides and sialic acids. This part also considers the nature of the lipophilic portions of the brain gangliosides. This part particularly looks into the features and clinical manifestation of Tay-Sachs disease. The third part covers the genetic and clinical aspects of the Tay-Sachs disease. This part also evaluates the genetics of the Hurler-Hunter syndrome, Batten-Spielmeyer-Vogt disease, and lipogranulomatosis syndrome. This book is of value to biochemists, histochemists, geneticists, and researchers in the allied fields of lipidosis.

Contributions to the ecology of halophytes Walnut Publication

This 20th volume in the series contains 16 invited reviews and highlight contributions presented during the 2007 International Scientific Conference of the German Astronomical Society on the topic of "Cosmic Matter", held in Würzburg,

Germany. The papers published here discuss a wide range of hot topics, including cosmology, high-energy astrophysics, astroparticle physics gravitational waves, extragalactic and stellar astronomy -- together representing the roadmap for astroparticle physics in Europe.

Origin and Evolution of Planetary

Atmospheres Princeton University Press
A highly original collection of high magnification photographs that unlock the hidden beauty of seeds and fruit, from the author of *Microsculpture The Hidden Beauty of Seeds & Fruits* is a photographic study that celebrates the wonders of nature and science in mind-blowing magnification. Levon Biss' striking photography captures the breathtaking and beautiful details of the world of carpology, the study of seeds and fruits. Each picture reveals minute features and textures that are normally invisible to the naked eye, providing the audience with an insight into strange and often bizarre adaptations that have evolved over thousands of years. After spending months searching through the carpological collection at the Royal Botanic Garden

Edinburgh, Biss selected over a hundred striking samples to be featured in this book. Captioned with scientific text that provides the backstory for each specimen, *The Hidden Beauty of Seeds & Fruits* is guaranteed to amaze, entertain, and educate.

**Ethnobotanical Studies of Beer
Jhunjhunu Conservation Reserve of
Jhunjhunu District of Rajasthan and
Screening of Selected Plant Species
for Their Antibacterial Activity**

Cambridge University Press

This is volume 3 of *Planets, Stars and Stellar Systems*, a six-volume compendium of modern astronomical research covering subjects of key interest to the main fields of contemporary astronomy. This volume on “Solar and Stellar Planetary Systems” edited by Linda French and Paul Kalas presents accessible review chapters From Disks to Planets, Dynamical Evolution of Planetary Systems, The Terrestrial Planets, Gas and Ice Giant Interiors, Atmospheres of Jovian Planets, Planetary Magnetospheres, Planetary Rings, An Overview of the Asteroids and Meteorites, Dusty Planetary Systems and Exoplanet Detection Methods. All chapters of the

handbook were written by practicing professionals. They include sufficient background material and references to the current literature to allow readers to learn enough about a specialty within astronomy, astrophysics and cosmology to get started on their own practical research projects. In the spirit of the series *Stars and Stellar Systems* published by Chicago University Press in the 1960s and 1970s, each chapter of *Planets, Stars and Stellar Systems* can stand on its own as a fundamental review of its respective sub-discipline, and each volume can be used as a textbook or recommended reference work for advanced undergraduate or postgraduate courses. Advanced students and professional astronomers in their roles as both lecturers and researchers will welcome *Planets, Stars and Stellar Systems* as a comprehensive and pedagogical reference work on astronomy, astrophysics and cosmology.

The Physics of the Early Universe

Springer Science & Business Media

This text is definitive, scientific, readable, and offers a reference and text for specialist gynecologists, psychiatrists, and psychologists working at a high level in

their respective professions. It is an academic text of the highest level being authoritative and comprehensive. It has the correct balance between the specialties of psychiatry

The Large Scale Structure of the Universe
Springer Science & Business Media

Numerical Computation of Internal and External Flows Volume 1: Fundamentals of Numerical Discretization C. Hirsch, Vrije Universiteit Brussel, Brussels, Belgium This is the first of two volumes which together describe comprehensively the theory and practice of the numerical computation of internal and external flows. In this volume, the author explains the use of basic computational methods to solve problems in fluid dynamics, comparing these methods so that the reader can see which would be the most appropriate to use for a particular problem. The book is divided into four parts. In the first part, mathematical models are introduced. In the second part, the various numerical methods are described, while in the third and fourth parts the workings of these methods are investigated in some detail. Volume 2 will be concerned with the applications of numerical methods to flow

problems, and together the two volumes will provide an excellent reference for practitioners and researchers working in computational fluid mechanics and dynamics.

Inborn Disorders of Sphingolipid Metabolism Abrams

Dramatic progress is a trademark of the recent study of globular cluster systems. Considerations about the formation and evolution compose the first chapter, followed by a chapter on young star clusters. Then come four chapters reviewing the globular cluster system of early-type, late-type and dwarf galaxies, as well as of groups of galaxies. One chapter is dedicated to stellar population models and their applications to the field. Finally a chapter reviews the kinematics of galaxies derived from globular cluster systems and another their role in the context of galaxy formation and evolution studies. As a whole, the book gives an up-to-date view of the field at the beginning of the new decade, which will without doubt again bring significant progress in our understanding of globular cluster systems and galaxy formation and evolution.

The Hidden Beauty of Seeds & Fruits

Springer Science & Business Media
The Physics of the Early Universe is an edited and expanded version of the lectures given at a recent summer school of the same name. Its aim is to present an advanced multi-authored textbook that meets the needs of both postgraduate students and young researchers interested in, or already working on, problems in cosmology and general relativity, with emphasis on the early universe. A particularly strong feature of the present work is the constructive-critical approach to the present mainstream theories, the careful assessment of some alternative approaches, and the overall balance between theoretical and observational considerations. As such, this book will also benefit experienced scientists and nonspecialists from related areas of research.

Local Group Cosmology Springer Science & Business Media

Deserts appear very fascinating during our short visits. However, the lives of plants and animals are very different under the harsh climatic conditions of high temperature and scant water supply in deserts,

sometimes associated with high concentrations of salt. The editor of this book was born and brought up in the Great Indian Desert, and has spent much of his life studying the growth and metabolism of desert plants. It is very charming on a cool summer evening to sit at the top of a sand dune listening only to blowing air and nothing else. It has been my dream to prepare a volume on desert plants encompassing various aspects of desert plant biology. In this book, I have tried to present functional and useful aspects of the vegetation resources of deserts along with scientific input aimed at understanding and improving the utility of these plants. The scant vegetation of deserts supports animal life and provides many useful medicines, timber and fuel wood for humans. Therefore, there are chapters devoted to medicinal plants (Chap. 1), halophytes (Chaps. 13, 14), and fruit plants (Chaps. 17, 20). Desert plants have a unique reproductive biology (Chaps. 9–11), well-adapted eco-physiological and anatomical characteristics (Chap. 7), and specialised metabolism and survival abilities. These plants are difficult to propagate and pose

many problems to researchers developing biotechnological approaches for their amelioration (Chaps. 18-20).

Elementary Number Theory in Nine Chapters Wiley

This book presents a collection of focused review papers on the advances in topics in modern astronomy, astrophysics, cosmology and planetary science. The chapters are written by expert members of an EU-funded ERASMUS+ program of strategic partnership between several European institutes. The 13 reviews comprise the topics: Space debris, optical measurements Meteors, light from comets and asteroids Extrasolar enigmas: from disintegrating exoplanets to exo-asteroids Physical conditions and chemical abundances in photoionized nebulae from optical spectra Observational Constraints on the Common Envelope Phase A modern guide to quantitative spectroscopy of massive OB stars Explosion mechanisms of core-collapse supernovae and their observational signatures Low-mass and substellar eclipsing binaries in stellar clusters Globular cluster systems and Galaxy Formation Hot atmospheres of galaxies, groups, and clusters of galaxies

The establishment of the Standard Cosmological Model through observations Exploiting solar visible-range observations by inversion techniques: from flows in the solar subsurface to a flaring atmosphere Starburst galaxies The book is intended for the general astronomical community as well as for advanced students who could use it as a guideline, inspiration and overview for their future careers in astronomy.

Hearing and Deafness Cambridge University Press

The ecology of halophytes has a wide scope of interest, appealing to people of many disciplines. It covers widely different fields such as climatology, soil science, phytogeography, adaptive biology and agriculture. Ecologists study these specialized plants in relation to estuarine ecosystems, biology of dominant genera, germination ecology, water relations, salt secretion, and senescence. The present volume is divided into three parts and attempts to elucidate new aspects of the problems faced by this special group of plants. It tries to give the reader an overall view of saline environments and the ecology of plants found therein. In the first

chapter of part one Zahran presents the halophytic vegetation of Egypt, which includes the inland and the littoral (Red Sea and Mediterranean Sea) salt marshes. The plants he describes have been classified as succulents, excretives and cumulatives, according to their adaptability to saline soils and according to their different life-forms. The second chapter throws light on the estuarine ecosystem of India. The estuaries are described by Joshi, and Bhosale as being rich in diversity of mangrove species. Making varied use of estuarine ecosystems is not only possible, but also essential because they are the meeting point between terrestrial and marine life. [no. 1-500 Elsevier](#)

One of the world's most distinguished astrophysicists presents a comprehensive theoretical treatment of the dynamical evolution of globular clusters. Lyman Spitzer's research in this field established the framework for decades of investigation. Now he summarizes in a unified, systematic way this branch of theoretical astrophysics with its still challenging problems. Originally published in 1988. The Princeton Legacy Library uses

the latest print-on-demand technology to again make available previously out-of-print books from the distinguished backlist of Princeton University Press. These

editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions. The goal of the Princeton Legacy

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