

METHODS IN COMPUTATIONAL PHYSICS

Advances in Research and Applications

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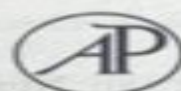
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Radio Astronomy Berni Alder, 2012-12-02 Methods in Computational Physics Volume 14 Radio Astronomy is devoted to the role of the digital computer both as a control device and as a calculator in addressing problems related to galactic radio noise This volume contains four chapters and begins with a technical description of the hardware and the special data handling problems of using radioheliography with an emphasis on a selection of observational results obtained with the Culgoora radioheliograph and their significance to solar physics and to astrophysics in general The subsequent chapter examines interstellar dispersion its influence on time resolution methods for its measurement and removing its effect This chapter also outlines resolution and sampling problems as well as the computation of the average pulse profile This chapter surveys also the intensity variations over time scales from microseconds to millions of years and over radio frequency ranges from 40 MHz to 10 GHz Another chapter highlights the special case of rotational aperture synthesis and its problems followed by a presentation of data processing necessary to convert the parameters observed with an aperture synthesis telescope into an intensity distribution of part of the sky The last chapter discusses some data acquisition and data reduction techniques as well as some selected problems in data interpretation in spectral line radio astronomy This book will be of great importance to geoscientists physicists and mathematicians

Controlled Fusion John Killeen, 2012-12-02 Methods in Computational Physics Volume 16 Controlled Fusion considers the full variety of computer models needed for the simulation of realistic fusion devices These computer models include time dependent magnetohydrodynamics plasma transport in a magnetic field MHD and guiding center equilibria MHD stability of confinement systems Vlasov and particle models and multispecies Fokker Planck codes This volume is divided into 11 chapters The first three chapters discuss various aspects of the numerical solution of the equations of magnetohydrodynamics MHD The subsequent chapters present the more realistic models including the thermal conductivity and electrical resistivity Other chapters describe two dimensional codes with various choice of coordinate systems such as fixed Eulerian grid Lagrangian descriptions and the use of magnetic flux surfaces as coordinate surfaces The discussion then shifts to models on the inclusion of neutrals and impurities as well as the use of empirical transport coefficients A chapter surveys the development of time dependent codes to support the design and operation of major CTR experiment The final chapters explore the electromagnetic codes in the nonradiative limit Darwin model where the equations are nonrelativistic and displacement currents are neglected This book is an invaluable source for geoscientists physicists and mathematicians

Vibrational Properties of Solids Gideon Gilat, 2012-12-02 Methods in Computational Physics Volume 15 Vibrational Properties of Solids explores the application of computational methods to delineate microscopic vibrational behavior This book is composed of nine chapters that further illustrate the utility of these methods to ordered lattices quantum solids impurity modes surface modes and amorphous solids The opening chapters present the basic theoretical models and their computational aspects for different solids of diverse chemical nature together

with some methods of automation and computation in the highly sophisticated experiments in inelastic scattering of neutrons. These topics are followed by a discussion on how group theoretical methods treated by computers can yield the proper symmetry assignments of phonon eigenvalues and eigenstates. Considerable chapters are devoted to the different applications of traditional lattice dynamics each having its own computational ramification. Other chapters survey the properties of solids that mostly involve integrations over the Brillouin zone. The last chapter concerns the dynamic or time dependent aspect of lattice dynamics namely the calculation of thermal and electric conductivities in some models of solids. This book is of great benefit to geoscientists, physicists and mathematicians. [Catalog of Copyright Entries, Third Series](#) Library of Congress, Copyright Office, 1977

General Circulation Models of the Atmosphere Julius Chang, 2012-12-02

Methods in Computational Physics Volume 17 *General Circulation Models of the Atmosphere* is a five chapter text that covers the fundamentals and application of general circulation models to solving practical problems related to the atmosphere. The first chapter describes the various options in modeling physical processes and computational procedures. The next two chapters illustrate the influence of practical considerations to the compromise between a detailed physical description and reasonable computing time. Other chapters outline the computational details of two different numerical schemes for general circulation models. These chapters particularly provide an in depth analysis of finite difference methods by proceeding from general considerations of homogeneous incompressible flow to the fine details of the particular numerical scheme. The final chapter discusses the fundamentals of the alternative spectral method for a multilevel spectral model that illustrates the capability of that approach. This book is of value to geoscientists, mathematicians and physicists. [Subject Guide to Books in Print](#), 1993

Nanohertz Gravitational Wave Astronomy Stephen R. Taylor, 2021-11-22

Nanohertz Gravitational Wave Astronomy explores the exciting hunt for low frequency gravitational waves by using the extraordinary timing precision of pulsars. The book takes the reader on a tour across the expansive gravitational wave landscape from LIGO detections to the search for polarization patterns in the Cosmic Microwave Background then hones in on the band of nanohertz frequencies that Pulsar Timing Arrays (PTAs) are sensitive to. Within this band may lie many pairs of the most massive black holes in the entire Universe all radiating in chorus to produce a background of gravitational waves. The book shows how such extra Galactic gravitational waves can alter the arrival times of radio pulses emanating from monitored Galactic pulsars and how we can use the pattern of correlated timing deviations from many pulsars to tease out the elusive signal. The book takes a pragmatic approach to data analysis explaining how it is performed in practice within classical and Bayesian statistics as well as the numerous strategies one can use to optimize numerical Bayesian searches in PTA analyses. It closes with a complete discussion of the data model for nanohertz gravitational wave searches and an overview of the past achievements, present efforts and future prospects for PTAs. The book is accessible to upper division undergraduate students and graduate students of astronomy and also serves as a useful desk reference for experts in the field.

Key features: Contains a complete derivation

of the pulsar timing response to gravitational waves and the overlap reduction function for PTAs Presents a comprehensive overview of source astrophysics and the dynamical influences that shape the gravitational wave signals that PTAs are sensitive to Serves as a detailed primer on gravitational wave data analysis and numerical Bayesian techniques for PTAs

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James D. Taylor,2016-12-19 This book presents the latest theory developments and applications related to high resolution materials penetrating sensor systems An international team of expert researchers explains the problems and solutions for developing new techniques and applications Subject areas include ultrawideband UWB signals propagation and scattering materials penetrating radar techniques for small object detection and imaging biolocation using holographic techniques tomography medical applications nondestructive testing methods electronic warfare principles through the wall radar propagation effects and target identification through measuring the target return signal spectrum changes *Publishers' Trade List Annual, 1980* Bobbs-Merrill Educational Co,1980 **Catalogue of Title-entries of Books and Other Articles Entered in the Office of the Librarian of Congress, at Washington, Under the Copyright Law ... Wherein the Copyright Has Been Completed by the Deposit of Two Copies in the Office** Library of Congress. Copyright Office,1977
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Radio Astronomy Methods In Computational Physics Advances In Research Applications Vol 14: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have charmed audiences this year. Radio Astronomy Methods In Computational Physics Advances In Research Applications Vol 14 : Colleen Hoover "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a exceptional and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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