

# METHODS IN COMPUTATIONAL PHYSICS

*Advances in Research and Applications*

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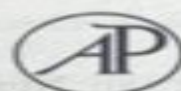
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# Radio Astronomy Methods In Computational Physics Advances In Research Applications Vol 14

**Rachel Sandford**



## **Radio Astronomy Methods In Computational Physics Advances In Research Applications Vol 14:**

**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 *Catalog of Copyright Entries. Third Series* Library of Congress. Copyright Office, 1977

**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

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

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

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