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Beams and Jets in Astrophysics P. A. Hughes, 1991-01-25 Provides researchers in the field with a comprehensive and up to date account of current research on astrophysical jets An important feature of the book is that it combines discussions of jets on stellar as well as galactic scales There are ten chapters authored by fourteen active researchers all of whom are experts on their chosen topics Recent hydrodynamic simulations of jets are included and reference to observations of actual jets is made where appropriate The book has been coherently edited to provide a cohesive account of this field of study It will be an important textbook for graduate students and a valuable reference source for researchers in high energy astrophysics It will also be of interest to plasma physicists and space scientists

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Astrophysical Jets D. Burgarella, M. Livio, C. P. O'Dea, 1993-11-11 A collection of edited review articles presented at a workshop at the Space Telescope Science Institute which gathered astrophysicists from the fields of extragalactic and galactic stellar jets

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An Introduction to Astrophysical Hydrodynamics Steven N. Shore, 2012-12-02 This book is an introduction to astrophysical hydrodynamics for both astronomy and physics students It provides a comprehensive and unified view of the general problems associated with fluids in a cosmic context with a discussion of fluid dynamics and plasma physics It is the only book on hydrodynamics that addresses the astrophysical context Researchers and students will find this work to be an exceptional

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Computational Methods for Astrophysical Fluid Flow Randall J. LeVeque,Dimitri Mihalas,E.A. Dorfi,Ewald Müller,2006-04-18 This book leads directly to the most modern numerical techniques for compressible fluid flow with special consideration given to astrophysical applications Emphasis is put on high resolution shock capturing finite volume schemes based on Riemann solvers The applications of such schemes in particular the PPM method are given and include large scale simulations of supernova explosions by core collapse and thermonuclear burning and astrophysical jets Parts two and three treat radiation hydrodynamics The power of adaptive moving grids is demonstrated with a number of stellar physical simulations showing very crispy shock front structures

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Advanced Topics on Astrophysical and Space Plasmas E.M. de Gouveia Dal Pino,Anthony L. Peratt,G.A. Medina Tanco,A.C.-L. Chian,2012-12-06 In June of 1996 at the idyllic seaside resort of Guaruj Brazil a renowned group of researchers in space and astrophysical plasmas met to provide a forum on Advanced Topics on Astrophysical and Space Plasmas at a school consisting of some 60 students and teachers mainly from Brazil and Argentina but also from all the other parts of the globe The purpose was to provide an update on the latest theories observations and simulations of space astrophysical plasma phenomena The topics covered included space plasma mechanisms for particle acceleration nonthermal emission in cosmic plasma magnetohydrodynamic instabilities in solar interstellar and other cosmic objects magnetic field line reconnection and merging the nonlinear and often chaotic structure of astrophysical plasmas and the advances in high performance supercomputing resources to replicate the observed phenomena The lectures were presented by Professor Mark Birkinshaw of the Harvard Smithsonian Center for Astrophysics and the University of Bristol Dr Anthony Peratt Los Alamos National Laboratory Scientific Advisor to the United States Department of Energy Dr Dieter Biskamp of the Max Planck Institute for Plasma Physics Garching Germany Professor Donald Melrose Director Centre for

Theoretical Astrophysics University of Sydney Australia Professor Abraham Chian of the National Institute for Space Research Brazil and Professor Nelson Fiedler Ferrara of the University of S o Paulo Brazil As summarized by Professor Reuven Opher Institute of Astronomy and Geophysics University of S o Paulo the advanced or interested student of space and astrophysical plasmas will find reference to nearly all modern aspects in the field of Plasma Astrophysics and Cosmology in the presented lectures

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