

G. Contopoulos · N. K. Spyrou  
L. Vlahos (Eds.)

# **Galactic Dynamics and N-Body Simulations**



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Galactic Dynamics And N Body Simulations Lectures  
Held At The Astrophysics School Vi Organized By The  
European Astrophysics Doctoral Network Eadn 13 23  
July 1993 Lecture Notes In Physics

**G. Contopoulos, N.K. Spyrou, L. Vlahos**



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researchers in theoretical physics astronomy and cosmology      *Kinematics and Dynamics of Galactic Stellar Populations* Rafael Cubarsi, 2018-07-27 Stellar dynamics is an interdisciplinary field where mathematics statistics physics and astronomy overlap The approaches to studying a stellar system include dealing with the collisionless Boltzmann equation the Chandrasekhar equations and stellar hydrodynamic equations which are comparable to the equations of motion of a compressible viscous fluid Their equivalence gives rise to the closure problem connected with the higher order moments of the stellar velocity distribution which is explained and solved for maximum entropy distributions and for any velocity distribution function depending on a polynomial function in the velocity variables On the other hand the Milky Way kinematics in the solar neighbourhood needs to be described as a mixture distribution accounting for the stellar populations composing the Galactic components As such the book offers a statistical study according to the moments and cumulants of a population mixture and a dynamical approach according to a superposition of Chandrasekhar stellar systems connected with the potential function and the symmetries of the model      *Gravitational N-Body Problem* M. Lecar, 1972-09-30 This volume contains the proceedings of the third IAU conference on the Gravitational N Body Problem The first IAU conference 12 years ago was motivated by the renaissance in Celestial Mechanics following the launching of artificial earth satellites and was an attempt to bring to bear on the problems of Stellar Dynamics the sophisticated analytical techniques of Celestial Mechanics That meeting was an outgrowth of the Summer Institutes in Celestial Mechanics initiated by Dirk Brouwer By the second IAU conference 22 years ago our interest had been captured by the attempts to simulate stellar systems on the computer Computer simulation is now an essential part of stellar dynamics journals of computational physics have started in the United Kingdom and in the United States and symposia on computer simulation of many body problems have become a perennial event 3 4 5 Although our early hopes that the computer would solve our problem have been tempered by experience some techniques of computer simulation have now matured through five years of testing and use A working description of the six most popular methods is appended to this volume During the past three years stellar dynamicists have followed closely the developments in the related field of Plasma Physics The contexts of Plasma and Stellar Physics are deceptively similar at first results from Plasma Physics were bodily transferred to stellar systems by changing the sign of the coupling We are more sophisticated and more skeptical now      **Gravitational Physics of Stellar and Galactic Systems** William C. Saslaw, 1987-07-31 This book is written to bring out the physical content behind the mathematical formulae      *The Restless Universe Applications of Gravitational N-Body Dynamics to Planetary Stellar and Galactic Systems* Bonnie Steves, A.J. Maciejewski, 2001-09-01 *The Restless Universe Applications of Gravitational N Body Dynamics to Planetary Stellar and Galactic Systems* stimulates the cross fertilization of ideas methods and applications among the different communities who work in the gravitational N body problem arena across diverse fields of astrophysics The chapters and topics cover three broad themes the dynamics of the solar system the dynamics of galaxies and star clusters and the large scale structure of the

universe The book is essential reading for scientists and graduate students studying N body dynamics from the fundamental techniques to the cutting edge of modern research in planetary stellar and galactic systems

**Gravitational N-Body Simulations** Sverre J. Aarseth, 2003 This book discusses in detail all the relevant numerical methods for the classical N body problem It demonstrates how to develop clear and elegant algorithms for models of gravitational systems and explains the fundamental mathematical tools needed to describe the dynamics of a large number of mutually attractive particles Particular attention is given to the techniques needed to model astrophysical phenomena such as close encounters and the dynamics of black hole binaries The author reviews relevant work in the field and covers applications to the problems of planetary formation and star cluster dynamics both of Pleiades type and globular clusters Self contained and pedagogical this book is suitable for graduate students and researchers in theoretical physics astronomy and cosmology

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look down from heaven and watch over you cinderella i promise i will mother~~