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The first part discusses stellar dynamics, integrable systems, the transition to chaos and instabilities in stellar dynamics as well as the dynamics of spiral galaxies. Models are given and compared with observations. The second part is devoted to the direct method of N-body simulations, to gas dynamics simulations and to galaxy formation.

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In physics and astronomy, an N-body simulation is a simulation of a dynamical system of particles, usually under the influence of physical forces, such as gravity. N-body simulations are widely used tools in astrophysics, from investigating the dynamics of few-body systems like the Earth-Moon-Sun system to understanding the evolution of the large-scale structure of the universe. In physical cosmology, N-body simulations are used to study processes of non-linear structure formation such as galaxy

N-body simulation - Wikipedia

Stellar dynamics is the branch of astrophysics which describes in a statistical way the collective motions of stars subject to their mutual gravity. The essential difference from celestial mechanics is that each star contributes more or less equally to the total gravitational field, whereas in celestial mechanics the pull of a massive body dominates any satellite orbits. Historically, the methods utilized in stellar dynamics

originated from the fields of both classical mechanics and statistical

Stellar dynamics - Wikipedia

Galaxy dynamics and cosmology. Galaxies, and especially dark matter halos, are constituted by a very large number of particles, so that their dynamics can be well described in terms of a mean field. Close encounters are not important and softening is usually employed in these N-body simulations to avoid the unphysical formation of binaries.

N-body simulations (gravitational) - Scholarpedia

Since it was first published in 1987, Galactic Dynamics has become the most widely used advanced textbook on the structure and dynamics of galaxies and one of the most cited references in astrophysics. Now, in this extensively revised and updated edition, James Binney and Scott Tremaine describe the dramatic recent advances in this subject, making Galactic Dynamics the most authoritative ...

Galactic Dynamics | Princeton University Press

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A direct way to obtain the orbit properties is by using N-body simulations. We note that N-body simulations have successfully reproduced many properties of galaxies, but it is difficult to control the accuracy of the force calculation in a simulation. The advantage of N-body simulations is that the potential models are

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Galactic Dynamics (2nd ed.) by Binney, James (ebook)

A complete revision and update of one of the most cited references in astrophysics Provides a comprehensive description of the dynamical structure and evolution of galaxies and other stellar systems Serves as both a graduate textbook and a resource for researchers Includes 20 color illustrations, 205 figures, and more than 200 problems Covers the gravitational N-body problem, hierarchical galaxy formation, galaxy mergers, dark matter, spiral structure, numerical simulations, orbits and chaos ...

Galactic Dynamics: Second Edition on JSTOR

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Galactic dynamics and n-body simulations : lectures held ...

A parallel implementation of an Aarseth N-body integrator on the CRAY T3D. ARI-Preprint No. 68, submitted to Monthly Notes of the Royal Astronomical Society, 1997. Google Scholar

Collisional dynamics around black hole binaries in ...

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.

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