



## Hamiltonian Systems With Three Or More Degrees Of Freedom

**Author :**Carles Sim / **Category :**Mathematics / **Total Pages :** 658 pages

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**Summary :** Free hamiltonian systems with three or more degrees of freedom pdf download - a survey of current knowledge about hamiltonian systems with three or more degrees of freedom and related topics the hamiltonian systems appearing in most of the applications are non-integrable hence methods to prove non-integrability results are presented and the different meaning attributed to non-integrability are discussed for systems near an integrable one it can be shown that under suitable conditions some parts of the integrable structure most of the invariant tori survive many of the papers discuss near-integrable systems from a topological point of view some singularities must appear in different problems either caustics geodesics moving wavefronts etc this is also related to singularities in the projections of invariant objects and can be used as a signature of these objects hyperbolic dynamics appear as a source on unpredictable behaviour and several mechanisms of hyperbolicity are presented the destruction of tori leads to aubrey-mather objects and this is touched on for a related class of systems examples without periodic orbits are constructed against a classical conjecture other topics concern higher dimensional systems either finite networks and localised vibrations on them or infinite like the quasiperiodic schrödinger operator or nonlinear hyperbolic pde displaying quasiperiodic solutions most of the applications presented concern celestial mechanics problems like the asteroid problem the design of spacecraft orbits and methods to compute periodic solutions

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