



An Introduction To Symplectic Geometry

Author :Rolf Berndt / **Category :**Mathematics / **Total Pages :** 195 pages

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Summary : Free an introduction to symplectic geometry pdf download - starts with the basics of the geometry of symplectic vector spaces then symplectic manifolds are defined and explored in addition to the essential classic results such as darbox's theorem more recent results and ideas are also included here such as symplectic capacity and pseudoholomorphic curves these ideas have revolutionized the subject the main examples of symplectic manifolds are given including the cotangent bundle kahler manifolds and coadjoint orbits further principal ideas are carefully examined such as hamiltonian vector fields the poisson bracket and connections with contact manifolds berndt describes some of the close connections between symplectic geometry and mathematical physics in the last two chapters of the book in particular the moment map is defined and explored both mathematically and in its relation to physics he also introduces symplectic reduction which is an important tool for reducing the number of variables in a physical system and for constructing new symplectic manifolds from old the final chapter is on quantization which uses symplectic methods to take classical mechanics to quantum mechanics this section includes a discussion of the heisenberg group and the weil or metaplectic representation of the symplectic group several appendices provide background material on vector bundles on cohomology and on lie groups and lie algebras and their representations

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