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treatment of the highly oscillating integrals for the Schrödinger equation are discussed as is well known this eventually leads to the theory of Fourier Integral Operators This short handbook is directed toward graduate students in Mathematics and Physics and to all those who desire a quick introduction to these beautiful subjects *Revista Matemática Iberoamericana*, 2016 **Discrete and Continuous Dynamical Systems**, 2006 **Nonlinearity**, 2005 [Encyclopedia of Nonlinear Science](#) Alwyn Scott, 2006-05-17 In 438 alphabetically arranged essays this work provides a useful overview of the core mathematical background for nonlinear science as well as its applications to key problems in ecology and biological systems chemical reaction diffusion problems geophysics economics electrical and mechanical oscillations in engineering systems lasers and nonlinear optics fluid mechanics and turbulence and condensed matter physics among others **Hamiltonian Systems** Albert Fathi, Philip J. Morrison, Tere M-Seara, Sergei Tabachnikov, 2024-05-09 Dynamical systems that are amenable to formulation in terms of a Hamiltonian function or operator encompass a vast swath of fundamental cases in applied mathematics and physics This carefully edited volume represents work carried out during the special program on Hamiltonian Systems at MSRI in the Fall of 2018 Topics covered include KAM theory polygonal billiards Arnold diffusion quantum hydrodynamics viscosity solutions of the Hamilton Jacobi equation surfaces of locally minimal flux Denjoy subsystems and horseshoes and relations to symplectic topology

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