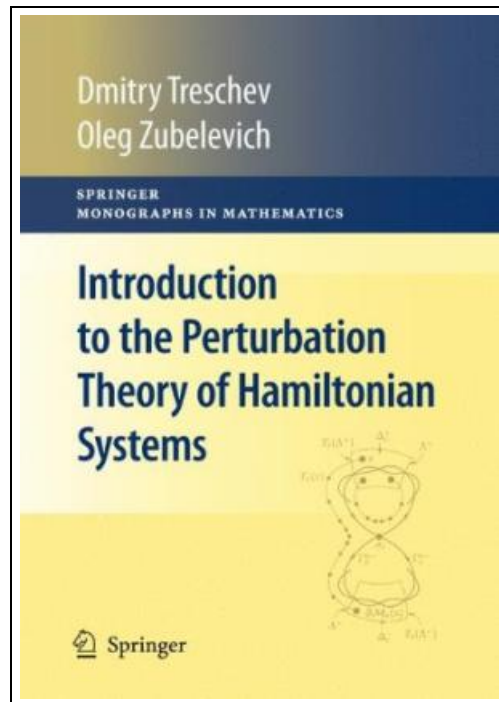# Introduction to the Perturbation Theory of Hamiltonian Systems

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INTRODUCTION TO THE PERTURBATION THEORY OF HAMILTONIAN SYSTEMS

Springer-Verlag Gmbh Okt 2009, 2009. Buch. Book Condition: Neu. 235x155x22 mm. Neuware - This book is an extended version of lectures given by the rst author in 1995-1996 at the Department of Mechanics and Mathematics of Moscow State University. We believe that a major part of the book can be regarded as an additional material to the standard course of Hamiltonian mechanics. In comparison with the original Russian 1 version we have included new material, simpli ed some proofs and corrected m- prints. Hamiltonian equations rst appeared in connection with problems of geometric optics and celestial mechanics. Later it became clear that these equations describe a large classof systemsin classical mechanics,physics,chemistry,and otherdomains. Hamiltonian systems and their discrete analogs play a basic role in such problems as rigid body dynamics, geodesics on Riemann surfaces, quasi-classic approximation in quantum mechanics, cosmological models, dynamics of particles in an accel- ator, billiards and other systems with elastic re ections, many in nite-dimensional models in mathematical physics, etc. In this book we study Hamiltonian systems assuming that they depend on some parameter (usually), where for = 0 the dynamics is in a sense simple (as a rule, integrable). Frequently such a parameter appears naturally. For example, in celestial mechanics it is accepted to take equal to the ratio: the mass of Jupiter over the mass of the Sun. In other cases it is possible to introduce the small parameter ar- cially. 211 pp. Englisch.

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