1. Record Nr. UNISA996466714303316

Titolo	Local and Global Methods of Nonlinear Dynamics [[electronic resource]] : Proceedings of a Workshop Held at the Naval Surface Weapons Center, Silver Spring, MD, July 23–26, 1984 / / edited by A.W. Zachary Saenz, R. Cawley
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1986
ISBN	3-540-39824-4
Edizione	[1st ed. 1986.]
Descrizione fisica	1 online resource (VII, 263 p.)
Collana	Lecture Notes in Physics, , 0075-8450 ; ; 252
Disciplina	530.15
Soggetti	Physics Mathematical Methods in Physics Numerical and Computational Physics, Simulation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Global aspects of periodic solutions of nonlinear conservative system -- Lecture 1: On resonant hamiltonian systems with finitely many degrees of freedom. -- Lecture 2: Realizations of the reduced phase space of a hamiltonian system with symmetry -- KAM Today -- Note on the evolution of the Lie-Deprit transform -- Lie transforms: A perspective -- The covariant lie-transformed plasma action principle -- Geometric Hamiltonian structures and perturbation theory -- Lie point transformation group solutions of the nonlinear Vlasov-Maxwell equations -- A constructive solution to the Hamilton-Jacobi equation -- Local and global aspects of a generalized Hamiltonian theory -- Particle channeling in crystals and the method of averaging -- Rigorous stability results on crystal channeling via canonical maps -- Some considerations for a theory of approximate invariants -- Exact invariants in the form of momentum resonances for particle motion in one-dimensional, time-dependent potentials.