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Autore	Lawrynowicz, Julian
Titolo	Analytic functions, Blazejewko 1982 : proc. of a conf. held in Blazejewko, Poland, August 19-27, 1982 / ed. J. Lawrynowicz
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2. Record Nr.	UNINA9910144942403321
Autore	Eliasson Hakan
Titolo	Dynamical Systems and Small Divisors : Lectures given at the C.I.M.E. Summer School held in Cetraro Italy, June 13-20, 1998 // by Hakan Eliasson, Sergei Kuksin, Stefano Marmi, Jean-Christophe Yoccoz ; edited by Stefano Marmi, Jean-Christophe Yoccoz
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Soggetti	Dynamics Operator theory Differential equations Dynamical Systems Operator Theory Differential Equations
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Perturbations of linear quasi-periodic system -- KAM-persistence of finite-gap solutions -- Analytic linearization of circle diffeomorphisms -- Some open problems related to small divisors.
Sommario/riassunto	Many problems of stability in the theory of dynamical systems face the difficulty of small divisors. The most famous example is probably given by Kolmogorov-Arnold-Moser theory in the context of Hamiltonian systems, with many applications to physics and astronomy. Other natural small divisor problems arise considering circle diffeomorphisms or quasiperiodic Schroedinger operators. In this volume Hakan Eliasson, Sergei Kuksin and Jean-Christophe Yoccoz illustrate the most recent developments of this theory both in finite and infinite dimension. A list of open problems (including some problems contributed by John Mather and Michel Herman) has been included.

