

1. Record Nr.	UNINA9910451251003321
Autore	Schlenk Felix <1970->
Titolo	Embedding problems in symplectic geometry [[electronic resource] /] / by Felix Schlenk
Pubbl/distr/stampa	Berlin ; ; New York, : Walter de Gruyter, c2005
ISBN	1-282-19481-X 9786612194818 3-11-915917-4 3-11-019969-6
Descrizione fisica	1 online resource (260 p.)
Collana	De Gruyter expositions in mathematics ; ; 40
Disciplina	516.3/6
Soggetti	Symplectic geometry Embeddings (Mathematics) Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references (p. 241-246) and index.
Nota di contenuto	Front matter -- Contents -- Introduction -- Proof of Theorem 1 -- Proof of Theorem 2 -- Multiple symplectic folding in four dimensions -- Symplectic folding in higher dimensions -- Proof of Theorem 3 -- Symplectic wrapping -- Proof of Theorem 4 -- Packing symplectic manifolds by hand -- Appendix -- Backmatter
Sommario/riassunto	Symplectic geometry is the geometry underlying Hamiltonian dynamics, and symplectic mappings arise as time-1-maps of Hamiltonian flows. The spectacular rigidity phenomena for symplectic mappings discovered in the last two decades show that certain things cannot be done by a symplectic mapping. For instance, Gromov's famous "non- squeezing" theorem states that one cannot map a ball into a thinner cylinder by a symplectic embedding. The aim of this book is to show that certain other things can be done by symplectic mappings. This is achieved by various elementary and explicit symplectic embedding.