1. Record Nr. UNINA9910458349703321

Autore	Sacks Elisha <1958->
Titolo	The configuration space method for kinematic design of mechanisms / / Elisha Sacks and Leo Joskowicz
Pubbl/distr/stampa	Cambridge, Massachusetts : , : MIT Press, , 2010 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2010]
ISBN	0-262-26558-3 1-282-63819-X 0-262-26587-7
Descrizione fisica	1 online resource (212 p.)
Altri autori (Persone)	JoskowiczLeo <1961->
Disciplina	621.8/11
Soggetti	Machinery, Kinematics of Computer-aided design Configuration space Machine design Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Sommario/riassunto	This book presents the configuration space method for computer-aided design of mechanisms with changing part contacts. Configuration space is a complete and compact geometric representation of part motions and part interactions that supports the core mechanism design tasks of analysis, synthesis, and tolerancing. It is the first general algorithmic treatment of the kinematics of higher pairs with changing contacts. It will help designers detect and correct design flaws and unexpected kinematic behaviors, as demonstrated in the book's four case studies taken from industry. After presenting the configuration space framework and algorithms for mechanism kinematics, the authors describe algorithms for kinematic analysis, tolerancing, and synthesis based on configuration spaces. The case studies follow, illustrating the application of the configuration space method to the analysis and design of automotive, micro-mechanical, and optical

mechanisms. Appendixes offer a catalog of higher-pair mechanisms and a description of HIPAIR, an open source C++ mechanical design system that implements some of the configuration space methods described in the book, including configuration space visualization and kinematic simulation. HIPAIR comes with an interactive graphical user interface and many sample mechanism input files. The Configuration Space Method for Kinematic Design of Mechanisms will be a valuable resource for students, researchers, and engineers in mechanical engineering, computer science, and robotics.

2. Record Nr. UNINA990004963290403321

Autore	Allwood, Jens
Titolo	Logica e linguistica / Jens Allwood, Lars-Gunnar Andersson, Östen Dahl
Pubbl/distr/stampa	Bologna, : Il Mulino, c1981
Descrizione fisica	254 p. ; 21 cm
Locazione	FLFBC
Collocazione	410.21 ALLW 01
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia