

1. Record Nr.	UNINA9910786561703321
Autore	Talley Nicholas J.
Titolo	Conquering irritable bowel syndrome // Nicholas J. Talley ; editor, Linda H. Mehta ; cover designer, Mary McKeon
Pubbl/distr/stampa	Shelton, Connecticut : , : People's Medical Publishing House-USA, , 2012 ©2012
ISBN	1-60795-251-3
Edizione	[Second edition.]
Descrizione fisica	1 online resource (188 p.)
Disciplina	616.342
Soggetti	Irritable colon Intestines - Diseases
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 and index.
Nota di contenuto	""Contents""; ""CH01""; ""CH02""; ""CH03""; ""CH04""; ""CH05""; ""CH06""; ""CH07""; ""Glossary""; ""References""; ""Index""

2. Record Nr.	UNINA9910299699003321
Autore	Kaltenbacher Manfred
Titolo	Numerical Simulation of Mechatronic Sensors and Actuators : Finite Elements for Computational Multiphysics // by Manfred Kaltenbacher
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2015
ISBN	3-642-40170-8
Edizione	[3rd ed. 2015.]
Descrizione fisica	1 online resource (600 p.)
Disciplina	534 620 620.1 620.11295 620.11297 620.5 621.381
Soggetti	Nanotechnology Acoustics Optical materials Electronics - Materials Mechanics Mechanics, Applied Electronics Microelectronics Nanotechnology and Microengineering Optical and Electronic Materials Solid Mechanics Electronics and Microelectronics, Instrumentation
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 at the end of each chapters and index.
Nota di contenuto	Introduction -- The Finite Element (FE) Method -- Mechanical Field -- Flow Field -- Acoustic Field -- Electromagnetic Field -- Coupled Flow-Structural Mechanical Systems -- Coupled Mechanical-Acoustic

Systems -- Computational Aeroacoustics -- Coupled Electostatic-Mechanical Systems -- Coupled Magnetomechanical Systems -- Piezoelectric Systems -- Algebraic Solvers -- Industrial Applications.

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## Sommario/riassunto

Like the previous editions also the third edition of this book combines the detailed physical modeling of mechatronic systems and their precise numerical simulation using the Finite Element (FE) method. Thereby, the basic chapter concerning the Finite Element (FE) method is enhanced, provides now also a description of higher order finite elements (both for nodal and edge finite elements) and a detailed discussion of non-conforming mesh techniques. The author enhances and improves many discussions on principles and methods. In particular, more emphasis is put on the description of single fields by adding the flow field. Corresponding to these field, the book is augmented with the new chapter about coupled flow-structural mechanical systems. Thereby, the discussion of computational aeroacoustics is extended towards perturbation approaches, which allows a decomposition of flow and acoustic quantities within the flow region. Last but not least, applications are updated and restructured so that the book meets modern demands.

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