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Titolo	The Finite Element Analysis Program MSC Marc/Mentat : A First Introduction // by Andreas Öchsner, Marco Öchsner
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ISBN	981-10-0821-3
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (147 p.)
Disciplina	620
Soggetti	Mechanics Mechanics, Applied Computer-aided engineering Materials science Solid Mechanics Computer-Aided Engineering (CAD, CAE) and Design Characterization and Evaluation of Materials
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	Introduction to Marc/Mentat -- Rods and Trusses -- Euler-Bernoulli Beams and Frames -- Timoshenko Beams -- Plane Elements -- Classical Plate Elements -- Three-Dimensional Elements -- Elasto-Plastic Simulation -- Advanced Topics -- Answers to Additional Questions.
Sommario/riassunto	Based on simple examples, this book offers a short introduction to the general-purpose finite element program MSC Marc, a specialized program for non-linear problems (implicit solver) distributed by the MSC Software Corporation, which is commonly used in academia and industry. Today the documentation of all finite element programs includes a variety of step-by-step examples of differing complexity, and in addition, all software companies offer professional workshops on different topics. As such, rather than competing with these, the book focuses on providing simple examples, often single-element problems, which can easily be related to the theory that is discussed in finite element lectures. This makes it an ideal companion book to classical introductory courses on the finite element method.

