

1. Record Nr.	UNINA9910463482803321
Titolo	Lectures on advanced computational methods in mechanics [[electronic resource] /] / edited by Johannes Kraus, Ulrich Langer
Pubbl/distr/stampa	Berlin ; ; New York, : Walter De Gruyter, c2007
ISBN	3-11-092709-8
Descrizione fisica	1 online resource (240 p.)
Collana	Radon series on computational and applied mathematics ; ; 1
Altri autori (Persone)	KrausJohannes LangerUlrich
Disciplina	515.355
Soggetti	Mechanics, Analytic - Mathematics Differential equations, Partial 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.
Nota di contenuto	Front matter -- Preface / Kraus, Johannes / Langer, Ulrich -- Table of Contents -- Modelling and iterative identification of hysteresis via Preisach operators in PDEs / Kaltenbacher, Barbara / Kaltenbacher, Manfred -- Multilevel methods for anisotropic elliptic problems / Kraus, Johannes / Margenov, Svetozar -- Domain decomposition methods / Nepomnyaschikh, Sergey -- A posteriori error estimation methods for partial differential equations / Repin, Sergey
Sommario/riassunto	This book contains four survey papers related to different topics in computational mechanics, in particular (1) novel discretization and solver techniques in mechanics and (2) inverse, control, and optimization problems in mechanics. These topics were considered in lectures, seminars, tutorials, and workshops at the Special Semester on Computational Mechanics held at the Johann Radon Institute for Computational and Applied Mathematics (RICAM), Linz, Austria, in December 2005.