1. Record Nr. UNINA9910144620503321

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Titolo	Multiscale Problems and Methods in Numerical Simulations : Lectures given at the C.I.M.E. Summer School held in Martina Franca, Italy, September 9-15, 2001 / / by James H. Bramble, Albert Cohen, Wolfgang Dahmen ; edited by Claudio Canuto
Pubbl/distr/stampa	Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 2003
ISBN	3-540-39810-4
Edizione	[1st ed. 2003.]
Descrizione fisica	1 online resource (XIV, 170 p.)
Collana	C.I.M.E. Foundation Subseries ; ; 1825
Disciplina	530.13
Soggetti	Fourier analysis Approximation theory Numerical analysis Fourier Analysis Approximations and Expansions Numerical Analysis
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 (pages 150-151).
Nota di contenuto	Preface -- A. Cohen: Theoretical Applied and Computational Aspects of Nonlinear Approximation -- W. Dahmen: Multiscale and Wavelet Methods for Operator Equations -- J. H. Bramble: Multilevel Methods in Finite Elements.
Sommario/riassunto	This volume aims to disseminate a number of new ideas that have emerged in the last few years in the field of numerical simulation, all bearing the common denominator of the "multiscale" or "multilevel" paradigm. This covers the presence of multiple relevant "scales" in a physical phenomenon; the detection and representation of "structures", localized in space or in frequency, in the solution of a mathematical model; the decomposition of a function into "details" that can be organized and accessed in decreasing order of importance; and the iterative solution of systems of linear algebraic equations using "multilevel" decompositions of finite dimensional spaces.