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Titolo Advances in Web Based Learning ICWL 2009 [Risorsa elettronica] : 8th International Conference, Aachen, Germany, August 19-21, 2009. Proceedings / edited by Marc Spaniol, Qing Li, Ralf Klamma, Rynson W. H. Lau
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- Collana** Lecture Notes in Computer Science , 0302-9743 ; 5686
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2. **Record Nr.** UNINA9910146301603321
Autore Bornemann Folkmar <1967->
Titolo Homogenization in Time of Singularly Perturbed Mechanical Systems // by Folkmar Bornemann
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- Pubbl/distr/stampa** Berlin, Heidelberg : , : Springer Berlin Heidelberg : , : Imprint : Springer, , 1998
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- ISBN** 3-540-69784-5
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- Edizione** [1st ed. 1998.]
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- Descrizione fisica** 1 online resource (XIV, 158 p.)
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- Collana** Lecture Notes in Mathematics, , 1617-9692 ; ; 1687
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- Disciplina** 515.352
-
- Soggetti** Mathematical analysis
Integral equations
Dynamics
System theory
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Homogenization of natural mechanical systems with a strong constraining potential -- Applications -- Adiabatic results in quantum theory and quantum-classical coupling.
Sommario/riassunto	<p>This book is about the explicit elimination of fast oscillatory scales in dynamical systems, which is important for efficient computer-simulations and our understanding of model hierarchies. The author presents his new direct method, homogenization in time, based on energy principles and weak convergence techniques. How to use this method is shown in several general cases taken from classical and quantum mechanics. The results are applied to special problems from plasma physics, molecular dynamics and quantum chemistry. Background material from functional analysis is provided and explained to make this book accessible for a general audience of graduate students and researchers.</p>