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Zbl 1157.93001 Christofides, Panagiotis D.; Armaou, Antonios; Lou, Yir Varshney, Amit Control and optimization of multiscale process system [B] Control Engineering. Boston, MA: Birkhäuser. xx, 232~p EUR~54.90/net; SFR~95.00 (2009). ISBN 978-0-8176-4792	 <u>The Painlevé</u> <u>handbook</u> <u>Einstein's</u> <u>mistakes</u> <u>Zeta functions of</u> <u>groups and rings</u> 		
In several industrial processes multiscale modeling is necess the coupling of macroscopic and microscopic phenomena. He feedback control and optimization of processes of this type a Modeling approaches of the following type are studied: Kinet simulation of distributed parameter processes, feedback con Monte Carlo models, construction of stochastic models and p estimation, predictive and covariance control using stochasti differential equations, steady-state and dynamic optimization Applications to industrial processes, especially chemical proce After the Preface and the Introduction, the contents involves chapters: 2. Multiscale process modeling and simulation; 3. kinetic Monte Carlo methods; 4. Construction of stochastic P Feedback control using stochastic PDEs; 6. Optimization of n systems; 7. Dynamic optimization of multiscale process syst contains many illustrations and tables with data from concre a large list of references. A good knowledge in partial differe probability theory and mathematical statistics, simulation me and optimization is required for an efficient reading of this be [Kurt Marti (München)] <i>MSC 2000:</i> <u>*93-02</u> Research monographs (systems and control) <u>93C20</u> Control systems governed by PDE <u>93C95</u> Appl. of control theory	ary to describe ere, methods for are considered. tic Monte Carlo trol using kinetic parameter c partial n techniques. esses, are given. the following Control using DEs; 5. nultiscale process ems. The book te processes and ntial equations, ethods, control pook.	Master Server Zentralblatt MATH Berlin [Germany] © FIZ Karlsruhe GmbH Zentralblatt MATH master server is maintained by the Editorial Office in Berlin, Section Mathematics and Computer Science of FIZ Karlsruhe and is updated daily. Other Mirror Sites	

60H15 Stochastic partial differential equations

Keywords: multiscale process systems; partial differential equations; optimal

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