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| 1. Record Nr. | UNINA9910138304003321 |
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| Titolo | Modelling and Simulation // edited by Giuseppe Petrone |
| Pubbl/distr/stampa | IntechOpen, 2008 [Place of publication not identified] : , : I-Tech Education and Publishing, , 2008 ©2008 |
| ISBN | 953-51-5833-3 |
| Edizione | [1st ed.] |
| Descrizione fisica | 1 online resource (690 pages) |
| Disciplina | 731.42 |
| Soggetti | Modeling |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Sommario/riassunto | This book collects original and innovative research studies concerning modeling and simulation of physical systems in a very wide range of applications, encompassing micro-electro-mechanical systems, measurement instrumentations, catalytic reactors, biomechanical applications, biological and chemical sensors, magnetosensitive materials, silicon photonic devices, electronic devices, optical fibers, electro-microfluidic systems, composite materials, fuel cells, indoor air-conditioning systems, active magnetic levitation systems and more. Some of the most recent numerical techniques, as well as some of the software among the most accurate and sophisticated in treating complex systems, are applied in order to exhaustively contribute in knowledge advances. |