1. Record Nr. UNINA9910450153603321

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| Autore | Lau Kung-Kiu |
| Titolo | Component-based software development [[electronic resource] ] : case studies / / Kung-Kiu Lau |
| Pubbl/distr/stampa | River Edge, N.J., : World Scientific, c2004 |
| ISBN | 1-281-34763-9<br>9786611347635<br>981-256-242-7 |
| Descrizione fisica | 1 online resource (312 p.) |
| Collana | Series on component-based software development ; ; v. 1 |
| Disciplina | 005.3 |
| Soggetti | Computer software - Development<br>Computer software industry<br>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 and index. |
| Nota di contenuto | Component-Based Software Development: Case Studies; Contents; Preface; 1. A Survey of Proposals for Architecting Component Software; 1.1 Introduction; 1.2 COTS Software Components; 1.2.1 Component Models; 1.2.2 COTS Components and the Software Development Process; 1.2.3 The Maturity of COTS Products and COTS-based Systems; 1.2.4 COTS Components in Real-time and Embedded systems; 1.2.5 Risks and Benefits of COTS Components; 1.3 Components and Software Architecture; 1.3.1 Integration of Software Components; 1.3.2 Software Components and Product line Architecture<br>1.4 COTS Components and Software Architecture1.4.1 COTS Components and Product line Architecture; 1.4.2 MOTS Frameworks and COTS Components; 1.4.3 Desirable Properties for Component Software Architecture; 1.4.4 Patterns for the Architecture of COTS-intensive Systems; 1.4.4.1 Middleware Layers; 1.4.5 COTS Component Integration; 1.4.6 Architectural Mismatch; 1.4.7 Maintainability of Component Software Architecture; 1.4.8 Architectural Views and COTS Components; 1.4.9 UML-RT and COTS Component Integration; 1.4.10 COTS Components in the Layers Associated with the Infrastructure Module |

2. Record Nr. UNINA9910830441203321

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| Titolo | Advanced computational materials modeling [[electronic resource] ] : from classical to multi-scale techniques / / edited by Miguel Vaz Junior, Eduardo A. de Souza Neto, and Pablo A. Munoz-Rojas |
| Pubbl/distr/stampa | Weinheim, Germany, : Wiley-VCH, c2011 |
| ISBN | 1-283-30241-1<br>9786613302410<br>3-527-63232-8<br>3-527-63231-X |
| Edizione | [4th ed.] |
| Descrizione fisica | 1 online resource (452 p.) |
| Altri autori (Persone) | Vaz JuniorMiguel<br>NetoE. A. de Souza (Eduardo)<br>Munoz-RojasPablo A |
| Disciplina | 620.11015118 |
| Soggetti | Materials - Mathematical models<br>Finite element method |
| 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 and index. |
| Nota di contenuto | Advanced Computational Materials Modeling: From Classical to Multi-Scale Techniques; Contents; Preface; List of Contributors; 1 Materials Modeling - Challenges and Perspectives; 1.1 Introduction; 1.2 Modeling Challenges and Perspectives; 1.2.1 Mechanical Degradation and Failure of Ductile Materials; 1.2.1.1 Remarks; 1.2.2 Modeling of Cellular Structures; 1.2.2.1 Remarks; 1.2.3 Multiscale Constitutive Modeling; 1.3 Concluding Remarks; Acknowledgments; References; 2 Local and Nonlocal Modeling of Ductile Damage; 2.1 Introduction; 2.2 Continuum Damage Mechanics; 2.2.1 Basic Concepts of CDM<br>2.2.2 Ductile Plastic Damage2.3 Lemaitre's Ductile Damage Model; 2.3.1 Original Model; 2.3.1.1 The Elastic State Potential; 2.3.1.2 The Plastic State Potential; 2.3.1.3 The Dissipation Potential; 2.3.1.4 Evolution of Internal Variables; 2.3.2 Principle of Maximum Inelastic Dissipation; 2.3.3 Assumptions Behind Lemaitre's Model; 2.4 Modified Local Damage Models; 2.4.1 Lemaitre's Simplified Damage Model; 2.4.1.1 Constitutive Model; 2.4.1.2 Numerical Implementation; 2.4.2 |

Sommario/riassunto

With its discussion of strategies for modeling complex materials using new numerical techniques, mainly those based on the finite element method, this monograph covers a range of topics including computational plasticity, multi-scale formulations, optimization and parameter identification, damage mechanics and nonlinear finite elements.