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| 1. | Record Nr. | UNISALENTO991001895149707536 |
| | Autore | Società italiana per il progresso delle scienze |
| | Titolo | Atti della 55. Riunione : le scienze per la qualità della vita : didattica delle scienze per la qualità della vita : Torino : 20-23.9.1979 / della Società italiana per il progresso delle scienze |
| | Pubbl/distr/stampa | Roma : SIPS, [1980?] |
| | Descrizione fisica | 454 p. : ill. ; 24 cm. |
| | Disciplina | 508 |
| | Soggetti | Scienze - Congressi |
| | Lingua di pubblicazione | Italiano |
| | Formato | Materiale a stampa |
| | Livello bibliografico | Monografia |
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| 2. | Record Nr. | UNINA9910659478703321 |
| | Autore | Ochsner Andreas |
| | Titolo | Computational Statics and Dynamics : An Introduction Based on the Finite Element Method / / by Andreas Öchsner |
| | Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023 |
| | ISBN | 3-031-09673-8 |
| | Edizione | [3rd ed. 2023.] |
| | Descrizione fisica | 1 online resource (723 pages) |
| | Disciplina | 620.00151535
620.00151825 |
| | Soggetti | Mathematics - Data processing
Mechanics, Applied
Solids
Condensed matter
Numerical analysis
Mechanics
Computational Mathematics and Numerical Analysis
Solid Mechanics
Condensed Matter Physics
Numerical Analysis
Classical Mechanics
Mètode dels elements finits |

Mecànica
Simulació per ordinador
Llibres electrònics

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Introduction to the Finite Element Method -- Rods and Trusses -- Euler-Bernoulli Beams and Frames -- Timoshenko Beams -- Plane Elements -- Classical Plate Elements -- Three-Dimensional Elements -- Principles of Linear Dynamics -- Integration Methods for Transient Problems -- Appendix A: Mathematics -- Appendix B: Mechanics -- Appendix C: Units and Conversion -- Appendix D: Summary of Stiffness Matrices.
Sommario/riassunto	This book is the 3rd edition of an introduction to modern computational mechanics based on the finite element method. This third edition is largely extended, adding many new examples to let the reader understand the principles better by performing calculations by hand, as well as numerical example to practice the finite element approach to engineering problems. The new edition comes together with a set of digital flash cards with questions and answers that improve learning success. Featuring over 100 more pages, the new edition will help students succeed in mechanics courses by showing them how to apply the fundamental knowledge they gained in the first years of their engineering education to more advanced topics. In order to deepen readers' understanding of the equations and theories discussed, each chapter also includes supplementary problems. These problems start with fundamental knowledge questions on the theory presented in the respective chapter, followed by calculation problems. In total, over 80 such calculation problems are provided, along with brief solutions for each.