1. Record Nr. UNINA9910164690503321

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| Autore | Robert R |
| Titolo | Fluid Filtration: Gas |
| Pubbl/distr/stampa | [Place of publication not identified], : American Society for Testing & Materials, 1986 |
| ISBN | 0-8031-6046-1 |
| Descrizione fisica | 1 online resource (431 pages) : illustrations |
| Collana | ASTM STP ; ; Volume 975 |
| Disciplina | 532 |
| Soggetti | Fluids - Congresses<br>Fabric filters |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Bibliographic Level Mode of Issuance: Monograph |

2. Record Nr. UNINA9910338249903321

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| Autore | Martinec Zdenk |
| Titolo | Principles of Continuum Mechanics : A Basic Course for Physicists / / by Zdenk Martinec |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2019 |
| ISBN | 3-030-05390-3 |
| Edizione | [1st ed. 2019.] |
| Descrizione fisica | 1 online resource (XIX, 247 p. 19 illus., 1 illus. in color.) |
| Collana | Neas Center Series, , 2523-3343 |
| Disciplina | 531 |
| Soggetti | Differential equations<br>Mechanics<br>Mechanics, Applied<br>Field theory (Physics)<br>Differential equations, Partial<br>Ordinary Differential Equations<br>Solid Mechanics<br>Classical and Continuum Physics<br>Partial Differential Equations |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di contenuto | Geometry of Deformation -- Basic Kinematics -- Measures of Stress -- Fundamental Conservation Principles -- Moving Reference Frames -- Constitutive Equations -- Entropy Principles -- Classical Linear Elasticity -- Infinitesimal Deformation of a Body with a Finite Pre-Stress. |
| Sommario/riassunto | This book addresses the basic concepts of continuum mechanics, that is, the classical field theory of deformable bodies. The theory is systematically developed, from the kinematics to the balance equations, the material theory, and the entropy principles. In turn, the linear-elastic solids, the ideal liquid and the Newtonian liquid are presented in detail as concrete applications. The book concludes by covering the theory of small motions in a medium with a finite prestress. In general, the emphasis is on presenting the content in a clear and straightforward way that requires only an elementary grasp of |

calculus, linear algebra, and Newtonian mechanics. The book is intended for students of physics, mechanics, engineering and the geosciences, as well as applied mathematics, with a year or more of college calculus behind them.