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| 1. Record Nr.           | UNISA990000132330203316   |
| Autore                  | Cook, Robert D.   |
| Titolo                  | Concepts and applications of finite element analysis / Robert D. Cook, David S. Malkus, Michael E. Plesha |
| Pubbl/distr/stampa      | New York [etc.] : John Wiley & Sons, copyr. 1989  |
| ISBN                    | 0-471-50319-3   |
| Descrizione fisica      | XVIII, 630 p. : ill. ; 24 cm  |
| Disciplina              | 624171  |
| Collocazione            | 624.171 COO   |
| Lingua di pubblicazione | Inglese   |
| Formato                 | Materiale a stampa  |
| Livello bibliografico   | Monografia  |
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| 2. Record Nr.           | UNINA9910788133003321  |
| Autore                  | Srinivasan G (Gopalan)   |
| Titolo                  | Composite magnetoelectrics : materials, structures, and applications // Gopalan Srinivasan, Shashank Priya and Nian X. Sun |
| Pubbl/distr/stampa      | Amsterdam, [Netherlands] : , : Woodhead Publishing, , 2015<br>©2015  |
| Edizione                | [1st edition]  |
| Descrizione fisica      | 1 online resource (381 p.)   |
| Collana                 | Woodhead Publishing Series in Electronic and Optical Materials ; ;<br>Number 62  |
| Disciplina              | 620.118  |
| Soggetti                | Composite materials - Magnetic properties<br>Composite materials - Electric properties                                     |
| 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 at the end of each chapters and index.   |
| Nota di contenuto       | Front Cover; Related titles; Composite Magnetoelectrics: Materials,  |

Structures, and Applications; Copyright; Contents; Woodhead Publishing Series in Electronic and Optical Materials; Part One - Introduction to magnetoelectric materials and phenomena; 1 - Theory of magnetoelectric phenomena in composites; 1.1 Introduction; 1.2 Low-frequency ME in composites; 1.3 Resonance ME effect in composites; 1.4 ME effect at magnetic resonance; 1.5 Conclusions; References; 2 - Magnetoelectric characterization techniques; 2.1 Introduction; 2.2 Direct-ME effects; 2.3 Converse ME effects; 2.4 Scanning probe microscopy techniques for ME effects in nanocomposites; References; 3 - Layered multiferroic composites; 3.1 Ferromagnetic-ferroelectric composites; 3.2 Direct magnetoelectric effects; 3.3 Converse ME effects; 3.4 Conclusions; References; 4 - Multiferroic nanostructures; 4.1 Introduction; 4.2 Magnetoelectric magnetic film/piezoelectric slab heterostructures; References; 5 - Epitaxial multiferroic heterostructures; 5.1 Introduction; 5.2 BiFeO<sub>3</sub> systems-related multiferroics; 5.3 La-manganite-related multiferroics; 5.4 Ferrite-related multiferroics; 5.5 Summary and prospects; References; 6 - Recent advances in piezoelectric and magnetoelectric materials phenomena; 6.1 Introduction; 6.2 Magnetoelectric solid solution; 6.3 Magnetoelectric composite; 6.4 Recent advances in piezoelectric and magnetoelectric materials; 6.5 Recent advances in fabrication of magnetoelectric composites; 6.6 Recent advances in lead-free piezoelectric and magnetoelectric composites; 6.7 Conclusion; Acknowledgments; References; 7 - Magnetoelectric energy harvester; 7.1 Introduction; 7.2 Development of magnetoelectric energy harvester; 7.3 Magnetoelectric composite; 7.4 Self-biased magnetoelectric energy harvester; 7.5 Multimode magnetoelectric energy harvester; 7.6 Low frequency and wideband magnetoelectric energy harvester; Acknowledgments; References; 8 - Magnetoelectric current sensor; 8.1 Introduction; 8.2 Development of magnetoelectric current sensors; 8.3 Conventional ME composites-based current sensors; 8.4 Self-biased ME composites-based current sensors; 8.5 ME transformer-based current sensors; 8.6 Magnetic noise and elimination; Acknowledgments; References; 9 - Microwave and millimeter-wave multiferroic devices; 9.1 Introduction; 9.2 Converse ME effects at ferromagnetic resonance; 9.3 Hybrid spin-electromagnetic waves in composites; 9.4 Composites for high-frequency devices; 9.5 Multiferroic high-frequency devices; 9.6 Conclusion; References; 10 - Magnetoelectric composites for miniature antennas; 10.1 Introduction; 10.2 Effect of high permeability/permittivity ratio on antenna performance; 10.3 High permeability RF/microwave thick film materials; 10.4 Bulk composites; 10.5 Layered thin film systems; 10.6 Antenna design and characteristics; References; 11 - Magnetoelectric composites for medical application; 11.1 Detailed background on wireless capsule endoscopy

## Sommario/riassunto

Composite Magnetoelectrics: Materials, Structures, and Applications gives the reader a summary of the theory behind magnetoelectric phenomena, later introducing magnetoelectric materials and structures and the techniques used to fabricate and characterize them. Part two of the book looks at magnetoelectric devices. Applications include magnetic and current sensors, transducers for energy harvesting, microwave and millimeter wave devices, miniature antennas and medical imaging. The final chapter discusses progress towards magnetoelectric memory. Summarises clearly the theory behind magnetoelectr

3. Record Nr.	UNINA9910254788103321
Autore	van Leeuwen Joyce
Titolo	The Aristotelian Mechanics : Text and Diagrams / / by Joyce van Leeuwen
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2016
ISBN	3-319-25925-3
Edizione	[1st ed. 2016.]
Descrizione fisica	1 online resource (259 p.)
Collana	Boston Studies in the Philosophy and History of Science, , 0068-0346 ; ; 316
Disciplina	900
Soggetti	Philology History Classical Studies History of Science
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.
Nota di contenuto	1. Introduction -- 2. General Characteristics of the Transmission -- 3. The Textual Transmission -- 4. Editing Diagrams -- 5. Diagrammatic Reasoning -- 6. Early Modern Transformations of Mechanics -- 7. Conclusion.
Sommario/riassunto	This book examines the transmission processes of the Aristotelian Mechanics. It does so to enable readers to appreciate the value of the treatise based on solid knowledge of the principles of the text. In addition, the book's critical examination helps clear up many of the current misunderstandings about the transmission of the text and the diagrams. The first part of the book sets out the Greek manuscript tradition of the Mechanics, resulting in a newly established stemma codicum that illustrates the affiliations of the manuscripts. This research has led to new insights into the transmission of the treatise, most importantly, it also demonstrates an urgent need for a new text. A first critical edition of the diagrams contained in the Greek manuscripts of the treatise is also presented. These diagrams are not only significant for a reconstruction of the text but can also be considered as a commentary on the text. Diagrams are thus revealed to be a powerful tool in studying processes of the transfer and transformation

of knowledge. This becomes especially relevant when the manuscript diagrams are compared with those in the printed editions and in commentaries from the early modern period. The final part of the book shows that these early modern diagrams and images reflect the altered scope of the mechanical discipline in the sixteenth century.

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