

1. Record Nr.	UNINA9910454025803321
Titolo	Everyday assessment in the science classroom [[electronic resource] /] / edited by J. Myron Atkin and Janet Coffey, editors
Pubbl/distr/stampa	Arlington, Va., : NSTApress, c2003
ISBN	1-281-75818-3 9786611758189 1-4356-5273-8 1-933531-64-9
Descrizione fisica	1 online resource (180 p.)
Collana	Science educators' essay collection
Altri autori (Persone)	AtkinJ. Myron CoffeyJanet
Disciplina	507/.1
Soggetti	Science - Study and teaching (Elementary) - Evaluation Science - Study and teaching (Secondary) - Evaluation Science - Ability testing 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	Contents; Acknowledgments; About the Editors; Introduction; CHAPTER 1; CHAPTER 2; CHAPTER 3; CHAPTER 4; CHAPTER 5; CHAPTER 6; CHAPTER 7; CHAPTER 8; CHAPTER 9; CHAPTER 10; Index
Sommario/riassunto	Make ongoing, classroom-based assessment second nature to your students and you. Everyday Assessment in the Science Classroom is a thought-provoking collection of 10 essays on the theories behind the latest assessment techniques. The authors offer in-depth "how to" suggestions on conducting assessments as a matter of routine- especially in light of high-stakes standards-based exams, using assessment to improve instruction, and involving students in the assessment process.

2. Record Nr.	UNINA9910815348903321
Titolo	Energy harvesting with piezoelectric and pyroelectric materials // edited by Nantakan Muensit
Pubbl/distr/stampa	Stafa-Zuerich, Switzerland ; ; Enfield, New Hampshire : , : Trans Tech Publications, , [2011] ©2011
ISBN	3-03813-658-1
Descrizione fisica	1 online resource (230 p.)
Collana	Materials science foundations, , 1422-3597 ; ; volume 72
Disciplina	621.31/24
Soggetti	Energy harvesting Energy harvesting - Materials Thermoelectric materials Piezoelectricity Piezoelectrical materials Pyroelectricity Electromechanical devices
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	Energy Harvesting with Piezoelectric and Pyroelectric Materials; Preface; Names and Affiliations of all the Contributors; Table of Contents; Table of Contents; Part I: Fundamentals; CHAPTER 1: ENERGY HARVESTING MATERIALS; 1. Brief History of Energy Harvesting; 2. Basics of Piezo- , Pyro-, and Ferroelectricity; 3. Materials for Energy Harvesting; 4. Analysis for the Harvested Power; 5. Summary; References; CHAPTER 2: ELECTROMECHANICAL MODELS FOR ENERGY HARVESTING SYSTEMS; 1. Introduction 2. Modeling of Mechanical Structures with Piezoceramics 3. Equivalent Circuit Model for Piezoelectric Systems4. Modeling the Electromechanical Coupling of Piezoelectric Bimorphs; 5. Experimental Parameter Identification; 6. Conclusions, References; Chapter 3: VIBRATION THEORY AND DESIGN OF PIEOELECTRIC ENERGY HARVESTING STRUCTURES; 1. Introduction, 2. Design of Piezoelectric Energy Harvesting Devices; 3. Theory of Piezoelectric Structural Vibration; 4. System Governing Equations of the Cantilever Structure; 5.

Results and Analysis for the Piezoelectric Cantilever; 6. Conclusions; References

CHAPTER 4: ENERGY FLOW ANALYSIS IN PIEZOELECTRIC HARVESTING SYSTEMS1. Background; 2. Mechanical-to-Mechanical Energy Transfer; 3. Mechanical-Electrical Energy Transduction; 4. Electrical-to-Electrical Energy Transfer; 5. Summary of the Total Energy Flow; 6. Conclusions, References; CHAPTER 5: CONVERSION ENHANCEMENT FOR ENERGY HARVESTING; 1.Introduction. 2.Modeling and Nonlinear Conversion Enhancement Principles; 3.Application to Energy Harvesting: SSH Techniques; 4.Extension of the Nonlinear Energy Harvesting Principles; 5.Implementation Considerations; 6.Conclusions References

Part II: Applications and Case Studies.CHAPTER 6: ENERGY HARVESTING FOR SMART MINIATURIZED SYSTEMS; 1. Introduction 2. Principles of Harvesting from Vibrations; 3. Designs for the Piezoelectric Microharvesting; 4. Nanomaterials for Piezoelectric Microharvesting; 5. Examples of Piezoelectrically Powered Smart Systems; 6. Conclusions References; CHAPTER 7: ENERGY HARVESTING FROM A LOW FRQUENCY POWER SOURCE; 1. Background; 2. Approaches for Low Frequency Energy Harvesting; 3. Low Frequency Energy Harvesting with PVDF; 4. Conclusions References; CHAPTER 8: WASTE HEAT TO HIGH VOLTAGE ELECTRICITY

1. Introduction2. Pyroelectric Copolymers; 3. Principle of Pyroelectric Conversion; 4. Experimental Work; 5. Economics and Technologies Comparison; 6. Conclusions; 7. Appendix; References; CHAPTER 9: ENERGY HARVESTING PRODUCTS AND FORECAST; 1. Introduction 2. Review of Commercial Devices; 3. Piezoelectric Energy Harvesters in Research; 4. Conclusions; 5. Future of Piezoelectric Energy Harvesting; References

Sommario/riassunto

The purpose of this book is to present the current state of knowledge in the field of energy harvesting using piezoelectric and pyroelectric materials. The book is addressed to students and academics engaged in research in the fields of energy harvesting, material sciences and engineering. Scientists and engineers who are working in the area of energy conservation and renewable energy resources should find it useful as well. Explanations of fundamental physical properties such as piezoelectricity and pyroelectricity are included to aid the understanding of the non-specialist. Specific technolo

3. Record Nr.	UNISANNIOURB0334521
Autore	Aki, Keiiti
Titolo	Quantitative seismology / Keiiti Aki, Paul G. Richards
Pubbl/distr/stampa	Sausalito, : University Science Books, c2002
Titolo uniforme	Quantitative seismology
ISBN	0935702962 9781891389634
Edizione	[2. ed]
Descrizione fisica	XVIII, 700 p. : ill. ; 26 cm.
Altri autori (Persone)	Richards, Paul G.
Disciplina	551.22
Soggetti	Sismologia
Collocazione	DOCENTI 551.22 AKI.qu01SALA 551.22 AKI. qu
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia