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Nota di contenuto	PREFACE; CONTENTS; STRAIN SENSORS MADE FROM MWNT/POLYMER NANOCOMPOSITES; 1. Introduction; 2. Experimental Study on Influences of CNTs on Sensor Piezoresistivity; 3. Experimental and Numerical Investigations on MWNT-7/epoxy Sensor; 4. Conclusion; References; SHEAR BAND EVOLUTION AND NANOSTRUCTURE FORMATION IN TITANIUM BY COLD ROLLING; 1. Introduction; 2. Experimental Procedure; 3. Results and Discussion; 3.1. TEM quantification of the microstructure refinement within shear bands; 3.2. TEM study of the microstructure refinement mechanisms within shear bands; 4. Conclusion; References BIODEGRADABLE Mg-Zr-Ca ALLOYS FOR BONE IMPLANT MATERIALS1. Introduction; 2. Experimental Procedures; 3. Results and Discussion; 4. Conclusion; Acknowledgments; References; HYDROXYAPATITE SYNTHESIZED FROM NANOSIZED CALCIUM CARBONATE VIA HYDROTHERMAL METHOD; 1. Introduction; 2. Experimental Method; 3. Results and Discussion; 4. Conclusion; References; MODELING OF THE MAGNETIZATION PROCESS AND ORTHOGONAL FLUXGATE SENSITIVITY OF FERROMAGNETIC MICRO-WIRE ARRAYS; 1. Introduction; 2. Modeling

of Hysteresis Loops; 2.1. Experimental measurement; 2.2. Hysteresis loop model
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4. Conclusion

Sommario/riassunto

The proceedings cover the latest research in advanced materials such as design, synthesis and development of new materials, processing technology for new materials, and modeling and simulation of materials processing.
