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Titolo	Plaster casts : making, collecting, and displaying from classical antiquity to the present // edited by Rune Frederiksen and Eckhart Marchand
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antiquity to the present day, and from Egypt to America, Mexico and New Zealand. They are of interest to classical archaeologists, art historians, the history of collecting, curators, conservators, collectors and artists. Articles explore the functions, status and reception of plaster casts in artists' workshops and in private and public collections, as well as hands-on issues, such as the making, trading, display and conservation of plaster casts. Case-studies on artists' use of material and technique include ancient Roman copyists, Renaissance sculptors and painters, Dutch 17th-century workshops, Canova, Boccioni and others. A second theme is the role of plaster casts in the history of collecting from the Renaissance to the present day. Several papers address the dissemination of visual ideas, models and ideals through the medium. Papers on modern and contemporary art illuminate the changing uses and semantic values of plaster casts in this period. Amongst the types of casts discussed are artists' models and final works as well as casts after antiquities, including sculpture, architecture and gems (dactylithecae). The volume demonstrates the richness of the field, both in terms of the material itself and modern scholarship concerned with it. Conceived as a handbook for students, academics, curators and collectors, the text will form a standard work on the role of plaster casts in the history of Western sculpture.

2. Record Nr.	UNINA9910373957103321
Titolo	Measurement of Nonlinear Ultrasonic Characteristics // edited by Kyung-Young Jhang, Cliff J. Lissenden, Igor Solodov, Yoshikazu Ohara, Vitalyi Gusev
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Nota di contenuto	Preface -- Chapter 1. Overviews: Nonlinear Ultrasonic Characteristics and Measurands -- Chapter 2. Elastic Nonlinearity induced Nonlinear Ultrasonic Characteristics -- 2.1 Higher Harmonics (HH) Generation, --2.2 Nonlinear Ultrasonic Parameters -- 2.2.1 Absolute Nonlinear Ultrasonic Parameter -- 2.2.2 Relative Nonlinear Ultrasonic Parameter -- 2.3 Measurement of Nonlinear Ultrasonic Parameter -- 2.3.1 Capacitive Detection and Laser-interferometric Detection -- 2.3.2 Piezo-electric Detection -- 2.3.3 Control of Propagation Distance and Control of Incident Wave Power -- 2.3.4 Phase Inversion Technique -- 2.4 Factors Affecting to Measurement Reliability -- 2.4.1 Measurement System: Transducer, Input Power, Contact Pressure, Electronic Equipment -- 2.4.2 Digital Signal Processings: Bandwidth of Incident Wave, Time Resolution, Amplitude Resolution -- 2.5 Applications to Assessment of Material Damage -- 2.5.1 Fatigue Damage -- 2.5.2 Plastic Deformation -- 2.5.3 Thermal Aging -- References -- Chapter 3. Nonlinear Acoustic Wave Interactions with Contact Interfaces: Methodologies and Applications -- 3.1. Nonlinear Reflection Approach

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Sommario/riassunto

Conventional ultrasonic methods based on ultrasonic characteristics in the linear elastic region are mainly sensitive to mature defects but are much less responsive to micro-damage or incipient material degradation. Recently, nonlinear ultrasonic characteristics beyond the linear ultrasonic amplitude range have been studied as a method for overcoming this limitation, and hence, many researchers are engaged

in theoretical, experimental, and various application studies. However, the nonlinear ultrasonic characteristics are quite exacting compared to the linear phenomena so that they require vast experience and high proficiency in order to obtain proper experimental data. Actually, many researchers, especially beginners including graduate students, have difficulty in reliably measuring nonlinear ultrasonic characteristics. This book provides key technological know-how from experts with years of experience in this field, which will help researchers and engineers to obtain a clear understanding and high quality data in the nonlinear ultrasonic experiments and applications.
