

1. Record Nr.	UNINA9910780741303321
Titolo	Plaster casts : making, collecting, and displaying from classical antiquity to the present / / edited by Rune Frederiksen and Eckhart Marchand
Pubbl/distr/stampa	Berlin ; ; New York, : De Gruyter, 2010
ISBN	1-282-88475-1 9786612884757 3-11-021687-6
Descrizione fisica	1 online resource (764 pages)
Collana	Transformationen der Antike, , 1864-5208 ; ; Bd. 18
Classificazione	NH 5200
Altri autori (Persone)	FrederiksenRune MarchandEckart
Disciplina	363.6/9
Soggetti	Antiquities - Collection and preservation Cultural property - Protection Plaster casts Sculpture, Ancient - Conservation and restoration Art, Ancient - Conservation and restoration Archaeology - Methodology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Papers originating from an international conference of the same name, held at Oxford University, Sept. 23-27, 2007.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Table of Contents -- Introduction / Frederiksen, Rune / Marchand, Eckart -- Antiquity -- Plaster Casts in Antiquity / Frederiksen, Rune -- The Baiae Casts and the Uniqueness of Roman Copies / Landwehr, Christa -- The Renaissance -- Plaster and Plaster Casts in Renaissance Italy / Marchand, Eckart -- "Giving away the moulds will cause no damage to his Majesty's casts" - New Documents on the Vienna Jüngling and the Sixteenth-Century Dissemination of Casts after the Antique in the Holy Roman Empire / Cupperi, Walter -- "Makinige of moldes for the walles" - The Stuccoes of Nonsuch: materials, methods and origins / Biddle, Martin -- Making and Distribution from the Eighteenth to the Twentieth Century -- "Moulded from the best originals of Rome" - Eighteenth-Century Production and Trade of Plaster Casts after Antique Sculpture in Germany / Schreiter,

Charlotte -- Laocoön in Scandinavia - Uses and Workshops 1587 onwards / Zahle, Jan -- How the Smiths Made a Living / Malone, Peter -- Artists' Academies -- Plaster Casts and Memory Technique: Nicolas Vleughels' display of cast collections after the antique in the French Academy in Rome (1725-1793) / Macsotay, Tomas -- Incorporating Antiquity - The Berlin Academy of Arts' Plaster Cast Collection from 1786 until 1815: acquisition, use and interpretation / Sedlarz, Claudia -- Art and Pedagogy in the Plaster Cast Collection of the Academia de San Carlos in Mexico City / Fuentes Rojas, Elizabeth -- Artists' Workshops -- Picturing the Use, Collecting and Display of Plaster Casts in Seventeenth- and Eighteenth-Century Artists' Studios in Antwerp and Brussels / Lock, Léon E. -- Modern Sculpture in the Making: Antonio Canova and plaster casts / Myssok, Johannes -- Chantrey and the Original Models / Sullivan, Matthew Greg -- Live Body Moulding and Maternal Devotion in Marcello's Studio / Corpataux, Jean-François -- Shattering the Mould: Medardo Rosso and the poetics of plaster / Hecker, Sharon -- "Impressionism Solidified" - Umberto Boccioni's Works in Plaster and the Definition of Modernity in Sculpture / Versari, Maria Elena -- Outside In: the after-life of the plaster cast in contemporary culture / Malvern, Sue -- Inside Out: a process for production / McAdam Freud, Jane -- Conservation -- The Plaster Decoration of the Choir Screens in the Church of Our Lady in Halberstadt: a current conservation project / Arnold, Daniela / Arnold, Torsten / Rüber-Schütte, Elisabeth -- The Restoration of Two Plaster Casts Acquired by Velázquez in the Seventeenth Century: the Hercules and Flora Farnese / Solís Parra, Ángeles / Gasca Miramón, Judit / Sánchez, Silvia Viana / Luzón Nogué, José María -- The Contribution of Plaster Sculptures and Casts to Successful Conservation Interventions at the National Gallery of Greece, Athens / Kliafa, Maria / Doulgeridis, Michael -- Architectural Models and Collections after Gems -- Plaster Models and Plaster Casts of Classical Architecture and its Decoration / Kockel, Valentin -- A Dactyliotheca by James Tassie and Other Collections of Gem Impressions at the University of Göttingen / Graepler, Daniel -- A Munificent Gift: cast collections of gem impressions from the Sir Henry Wellcome Trust / Wagner, Claudia / Seidmann, Gertrud -- Casting Nations: The National Museum -- "The Question of Casts" - Collecting and Later Reassessment of the Cast Collections at South Kensington / Bilbey, Diane / Trusted, Marjorie -- The Reproductive Continuum: plaster casts, paper mosaics and photographs as complementary modes of reproduction in the nineteenth-century museum / Baker, Malcolm -- Plaster Casts and Postcards: the postcard edition of the Musée de Sculpture Comparée at Paris / Gampf, Axel -- More Valuable than Originals? The Plaster Cast Collection in the National Museum of Prague (1818-2008): its history and predecessors / Stehliková, Dana -- Building a Small Albertinum in Moscow: the correspondence between Georg Treu and Ivan Tsvetaev / Burg, Tobias -- Cast Collecting in the United States / Dyson, Stephen L. -- Colonial Contexts: the changing meanings of the cast collection of the Auckland War Memorial Museum / Cooke, Ian -- Display and the Future of Plaster Casts -- Sir John Soane's Casts as Part of his Academy of Architecture at 13 Lincoln's Inn Fields / Dorey, Helen -- The Museum as a Manifesto of Taste and Ideology: the twentieth-century plaster cast collection of archaeology and art at the University of Padua / Menegazzi, Alessandra -- Living with Plaster Casts / Perkins, James -- Le jardin des plâtres: un autre regard sur les collections de moulages / van den Driessche, Bernard -- Backmatter

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 (dactyliothecae). 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
Pubbl/distr/stampa	Singapore : , : Springer Singapore : , : Imprint : Springer, , 2020
ISBN	981-15-1461-5
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (X, 287 p.)
Collana	Springer Series in Measurement Science and Technology, , 2198-7807
Disciplina	620.11274
Soggetti	Physical measurements Measurement Materials science Acoustics Measurement Science and Instrumentation Characterization and Evaluation of Materials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
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 -- 2.3.1 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

to Interface Nonlinearity -- 3.1.1 Nonlinear acoustic reflection at an ideally bonded interface -- 3.2.1 Application of Reflection Concept to Nonlinear Interface Wave Propagation -- 3.3.1 Second Harmonic Generation of Interface Acoustic Waves -- 3.2. Acoustic Nonlinearity of a Non-Bonded Interface -- 3.2.1 Phenomenology of Contact Acoustic Nonlinearity (CAN) -- 3.2.2 Higher Harmonics (HH) Generation at Contact Interfaces -- 3.2.3 Nonlinear Acoustic Reflection by Fractured Defects -- 3.2.4 Acoustic Rectification and Nonlinear Polarization Effects via CAN -- 3.3. Non-Classical Nonlinear Effects in Resonant Contact Inclusions -- 3.3.1 Concept of Local Defect Resonance -- 3.3.2 Sub- and Super-harmonic Resonances -- 3.3.3 Nonlinear Parametric Instability Effects -- 3.4. Applications for Nonlinear Imaging of Defects -- 3.4.1 Nonlinear Scanning Laser Vibrometry -- 3.4.2 Nonlinear Air-Coupled Emission (NACE) -- 3.4.3 Case Studies of Nonlinear Imaging of Defects -- References -- Chapter 4. Nonlinear Ultrasonic Phased Array for Measurement of Closed-Crack Depth -- 4.1. Introduction -- 4.2. Harmonics -- 4.2.1. Principles -- 4.2.2. Experimental conditions -- 4.2.3. Imaging results -- 4.3. Parallel and sequential transmission -- 4.3.1. Principles -- 4.3.2. Experimental conditions -- 4.3.3. Imaging results -- 4.4. Full-, odd- and even-elements transmission -- 4.4.1. Principles -- 4.4.2. Experimental conditions -- 4.4.3. Imaging results -- 4.5. Utilization of thermal stress -- 4.5.1. Principles -- 4.5.2. Experimental conditions -- 4.5.3. Imaging results -- References -- Chapter 5. Nonlinear Guided Waves -- 5.1. Introduction -- 5.2. Background on guided wave propagation -- 5.3. Self Interaction -- 5.3.1. Basic principles -- 5.3.2. Lamb waves in plate -- 5.3.3. Shear horizontal waves in plate -- 5.3.4. Axisymmetric waves in pipe -- 5.3.5. Flexural waves in pipe -- 5.4. Mutual interaction in plate -- 5.4.1. Basic principles -- 5.4.2. Collinear waves -- 5.4.3. Non-collinear waves -- 5.5. Actuation of primary waves and reception of secondary waves -- 5.5.1. Actuation of Lamb and L(0,n) waves -- 5.5.2. Actuation of SH and T(0,n) waves -- 5.5.3. Reception -- 5.5.4. Effects of diffraction -- 5.6. Signal processing -- 5.6.1. Fast Fourier transform -- 5.6.2. Phase inversion -- 5.7. Measurement considerations -- 5.7.1. Measurement nonlinearities -- 5.7.2. Material nonlinearity -- 5.7.3. Contact acoustic nonlinearity -- 5.7.4. Measuring progressive degradation -- References -- Chapter 6. Nonlinear Frequency-Mixing Photoacoustic Characterization of a Crack -- 6.1. Introduction in nonlinear photoacoustics -- 6.1.1. An overview of NDT methods combining laser optics with nonlinear acoustics -- 6.1.2. Generation of the thermo-elastic stresses and of acoustic waves by modulation of cw-laser radiation -- 6.1.3. Influence of stationary laser heating on a crack -- 6.2. Nonlinear frequency-mixing photo-acoustic method for crack detection -- 6.2.1. Principle of the method -- 6.2.2. One dimensional imaging of a crack -- 6.2.3. Two-dimensional imaging of a crack -- 6.2.4. Role of classical and nonclassical nonlinearities -- 6.3. Breathing and spatial resolution evolution with experimental parameters -- 6.3.1. Influence of the probe power -- 6.3.2. Influence of the pump power -- 6.3.3. Influence of the local crack parameters -- 6.4. Towards quantitative evaluation of local crack parameters -- 6.4.1. Experimental observations -- 6.4.2. Theoretical model,-6.4.3. Extraction of crack parameters,-References.

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.
