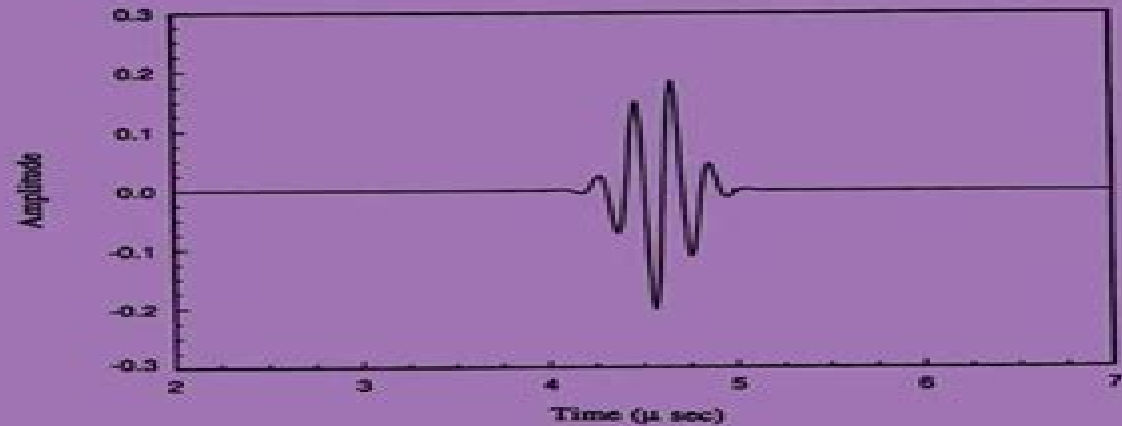




Fundamentals of ULTRASONIC NONDESTRUCTIVE EVALUATION

A Modeling Approach

LESTER W. SCHMERR, JR.

Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach

Tribikram Kundu



Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach:

Fundamentals of Ultrasonic Nondestructive Evaluation Lester W. Schmerr Jr., 2013-06-14 Ultrasound is currently used in a wide spectrum of applications ranging from medical imaging to metal cutting This book is about using ultrasound in nondestructive evaluation NDE inspections Ultrasonic NDE uses high frequency acoustic elastic waves to evaluate components without affecting their integrity or performance This technique is commonly used in industry particularly in aerospace and nuclear power to inspect safety critical parts for flaws during in service use Other important uses of ultrasonic NDE involve process control functions during manufacturing and fundamental materials characterization studies It is not difficult to set up an ultrasonic NDE measurement system to launch waves into a component and monitor the waves received from defects such as cracks even when those defects are deep within the component It is difficult however to interpret quantitatively the signals received in such an ultrasonic NDE measurement process For example based on the ultrasonic signal received from a crack what is the size shape and orientation of the crack producing the signal Answering such questions requires evaluation procedures based on a detailed knowledge of the physics of the entire ultrasonic measurement process One approach to obtaining such knowledge is to couple quantitative experiments closely with detailed models of the entire ultrasonic measurement system itself We refer to such models here as ultrasonic NDE measurement models In other areas of engineering models have revolutionized how engineering is practiced A classic example is the impact of the finite element method on elastic stress analysis

Fundamentals of Ultrasonic Nondestructive Evaluation Lester W. Schmerr Jr., 2013-11-11 Ultrasound is currently used in a wide spectrum of applications ranging from medical imaging to metal cutting This book is about using ultrasound in nondestructive evaluation NDE inspections Ultrasonic NDE uses high frequency acoustic elastic waves to evaluate components without affecting their integrity or performance This technique is commonly used in industry particularly in aerospace and nuclear power to inspect safety critical parts for flaws during in service use Other important uses of ultrasonic NDE involve process control functions during manufacturing and fundamental materials characterization studies It is not difficult to set up an ultrasonic NDE measurement system to launch waves into a component and monitor the waves received from defects such as cracks even when those defects are deep within the component It is difficult however to interpret quantitatively the signals received in such an ultrasonic NDE measurement process For example based on the ultrasonic signal received from a crack what is the size shape and orientation of the crack producing the signal Answering such questions requires evaluation procedures based on a detailed knowledge of the physics of the entire ultrasonic measurement process One approach to obtaining such knowledge is to couple quantitative experiments closely with detailed models of the entire ultrasonic measurement system itself We refer to such models here as ultrasonic NDE measurement models In other areas of engineering models have revolutionized how engineering is practiced A classic example is the impact of the finite element method on elastic stress analysis

Fundamentals of Ultrasonic

Nondestructive Evaluation Lester W. Schmerr Jr., 2016-04-30 This extensively revised and updated second edition of a widely read classic presents the use of ultrasound in nondestructive evaluation NDE inspections Retaining the first edition's use of wave propagation scattering theory and linear system theory this volume also adds significant new material including the introduction of MATLAB functions and scripts that evaluate key results involving beam propagation and scattering flaw sizing and the modeling of ultrasonic systems elements of Gaussian beam theory and a multi Gaussian ultrasonic beam model for bulk wave transducers a new chapter on the connection between ultrasonic modeling and probability of detection POD and reliability models new and improved derivations of ultrasonic measurement models updated coverage of ultrasonic simulators that have been developed around the world Students engineers and researchers working in the ultrasonic NDE field will find a wealth of information on the modeling of ultrasonic inspections and the fundamental ultrasonic experiments that support those models in this new edition Ultrasonic Nondestructive Evaluation Systems Lester W. Schmerr Jr., Jung-Sin Song, 2007-04-22 Using a systems level approach this book employs aspects of linear systems theory and wave propagation and scattering theory to develop a comprehensive model of an entire ultrasonic measurement system This integrated approach leads to a new model based engineering technology for designing using and optimizing ultrasonic nondestructive evaluation inspections In addition the book incorporates MATLAB examples and exercises **Ultrasonic Nondestructive Evaluation** Tribikram Kundu, 2003-12-29 Most books on ultrasonic nondestructive evaluation NDE focus either on its theoretical background or on advanced applications Furthermore information on the most current applications such as guided wave techniques and acoustic microscopy is scattered throughout various conference proceedings and journals No one book has integrated these aspects Fundamentals of Ultrasonic Testing Chunguang Xu, Weibin Li, 2024-08-01 Focusing on the theory and state of the art technologies of ultrasonic testing UT this book examines ultrasonic propagation in solids and its detection applications and explores the intersection of UT technology with various fields of electromagnetics optics and physics UT is one of the most widely used nondestructive testing techniques due to its high performance in terms of detection efficiency and safety The rapid development of modern industrial products and technologies has created a new challenge and demand for ultrasonic nondestructive testing technology This book introduces the fundamentals of UT including sound wave and sound field interface wave theory and liquid solid coupled sound field It then discusses various types of UT methods ranging from the critically refracted longitudinal wave method to ultrasonic surface wave and ultrasonic guided wave detection methods Some newly developed UT techniques are also discussed including phased array UT high frequency UT and non contact UT This title will appeal to engineering students and technicians in the field of ultrasonic nondestructive testing **Advances in Structural Adhesive Bonding** David A. Dillard, 2023-06-10 Advances in Structural Adhesive Bonding Second Edition reviews developments in adhesive bonding for a range of advanced structural engineering applications This new edition has been fully revised to include the latest advances in materials testing and modeling methods

lifecycle considerations and industrial implementation Sections review advances in commonly used groups of structural adhesives covering epoxy acrylic anaerobic and cyanoacrylate polyurethane and silicone adhesives along with toughening Other chapters cover various types of adherends and pre treatment methods for structural materials including metals plastics composites wood and joint design and testing including topics such as fracture mechanics life prediction techniques and advanced testing methods This is a valuable guide for all those working with structural adhesives including those in an industrial setting adhesive specialists structural engineers design engineers R D professionals and scientists as well as academic researchers and advanced students in adhesives joining technology materials science and mechanical engineering Provides detailed coverage on the main adhesive groups including epoxy acrylic cyanoacrylate polyurethane and silicone adhesives Includes the latest developments across adherends pre treatment methods joint design and testing durability and lifecycle related issues Addresses environmental challenges adhesive specification quality control and risk mitigation for specific industrial application areas

New Acoustics Francisco Ramón Montero de Espinosa Freijo, 2006 Se recoge en este libro una selección de las contribuciones presentadas a varios seminarios científicos que se organizaron en el Instituto de Acústica del CSIC durante los años 2004 y 2005 Esas contribuciones tratan un amplio abanico de temas desde las estrategias para medir y controlar el ruido en la ciudad de Madrid hasta la técnica de toma de imágenes con fines médicos basada en el comportamiento elástico de los tejidos humanos Otros temas como los sistemas de sensores de onda acústica de superficie el control de ruido activo o los dispositivos para la inspección sanitaria de productos de uso cotidiano por medio de ultrasonidos constituyen buenos ejemplos de la utilización de sistemas acústicos en el mundo industrial

Health Monitoring of Aerospace Structures Wieslaw Staszewski, C. Boller, G. R. Tomlinson, 2004-02-13 Providing quality research for the reader this title encompasses all the recent developments in smart sensor technology for health monitoring in aerospace structures providing a valuable introduction to damage detection techniques Focussing on engineering applications all chapters are written by smart structures and materials experts from aerospace manufacturers and research academic institutions This key reference Discusses the most important aspects related to smart technologies for damage detection this includes not only monitoring techniques but also aspects related to specifications design parameters assessment and qualification routes Presents real case studies and applications this includes in flight tests the work presented goes far beyond academic research applications Displays a balance between theoretical developments and engineering applications

Zero-Carbon Energy Kyoto 2009 Takeshi Yao, 2010-03-25 Emissions of CO₂ have come to be regarded as the main factor in climate change in recent years and how to control them has become a pressing issue The problem cannot simply be labeled a technological one however because it is deeply involved with social and economic issues Since 2008 the Global Center of Excellence COE program titled Energy Science in the Age of Global Warming Toward a CO₂ Zero Emission Energy System has been held at Kyoto University Japan The program aims to establish an international education and research platform to foster educators researchers and policy

makers who can develop technologies and propose policies toward a zero emission society by the year 2100 Setting out a zero emission technology roadmap Global COE promotes socioeconomic studies of energy the study of new technologies for renewable energies and research in advanced nuclear energy A compilation of the lectures and presentations from the first symposium of Global COE held at Kyoto University this book is intended to provide the impetus for the establishment of low carbon energy science to bring about harmony between mankind and the environment Principles and Applications of Ubiquitous Sensing Waltenegus Dargie, 2017-01-17 Applications which use wireless sensors are increasing in number The emergence of wireless sensor networks has also motivated the integration of a large number of small and lightweight nodes which integrate sensors processors and wireless transceivers Existing books on wireless sensor networks mainly focus on protocols and networks and pay little attention to the sensors themselves which the author believes is the main focus Without adequate knowledge of sensors as well as how they can be designed realized and used books on wireless sensor networks become too theoretical and irrelevant The purpose of this book is to intimately acquaint readers with the technique of sensing resistive capacitive inductive magnetic inertial etc and existing sensor technologies It also discusses how the sensors are used in a wide application domain and how new sensors can be designed and used in a novel way *Health Monitoring of Structural Materials and Components* Douglas Adams, 2007-06-13 The first complete introduction to health monitoring encapsulating both technical information and practical case studies spanning the breadth of the subject Written by a highly respected figure in structural health monitoring this book provides readers with the technical skills and practical understanding required to solve new problems encountered in the emerging field of health monitoring The book presents a suite of methods and applications in loads identification usage monitoring in situ damage identification diagnostics and damage and performance prediction prognostics Concepts in modelling measurements and data analysis are applied through real world case studies to identify loading assess damage and predict the performance of structural components as well as examine engine components automotive accessories aircraft parts spacecraft components civil structures and defence system components In particular the book provides the reader with a fundamental and practical understanding of the material discusses models demonstrating the physical basis for health monitoring techniques gives a detailed review of the best practices in dynamic measurements including sensing presents numerous data analysis techniques using model and signal based methods discusses case studies involving real world applications of health monitoring offers end of chapter problems to enhance the study of the topic for students and instructors and includes an accompanying website with MATLAB programs providing hands on training to readers for writing health monitoring model simulation and data analysis algorithms *Health Monitoring of Structural Materials and Components* is an excellent introductory text for newcomers to the subject as well as an excellent study tool for students and lecturers Practitioners and researchers those with a greater understanding and application of the technical skills involved will also find this essential reading as a reference text to address current and

future challenges in this field The wide variety of case studies will appeal to a broad spectrum of engineers in the aerospace civil mechanical machinery and defence communities

Mechanics of Elastic Waves and Ultrasonic Nondestructive Evaluation Tribikram Kundu, 2019-07-09 Summary This book presents necessary background knowledge on mechanics to understand and analyze elastic wave propagation in solids and fluids This knowledge is necessary for elastic wave propagation modeling and for interpreting experimental data generated during ultrasonic nondestructive testing and evaluation NDT E The book covers both linear and nonlinear analyses of ultrasonic NDT E techniques The materials presented here also include some exercise problems and solution manual Therefore this book can serve as a textbook or reference book for a graduate level course on elastic waves and or ultrasonic nondestructive evaluation It will be also useful for instructors who are interested in designing short courses on elastic wave propagation in solids or NDT E The materials covered in the first two chapters provide the fundamental knowledge on linear mechanics of deformable solids while Chapter 4 covers nonlinear mechanics Thus both linear and nonlinear ultrasonic techniques are covered here Nonlinear ultrasonic techniques are becoming more popular in recent years for detecting very small defects and damages However this topic is hardly covered in currently available textbooks Researchers mostly rely on published research papers and research monographs to learn about nonlinear ultrasonic techniques Chapter 3 describes elastic wave propagation modeling techniques using DPSM Chapter 5 is dedicated to an important and very active research field acoustic source localization that is essential for structural health monitoring and for localizing crack and other type of damage initiation regions Features Introduces Linear and Nonlinear ultrasonic techniques in a single book Commences with basic definitions of displacement displacement gradient traction and stress Provides step by step derivations of fundamental equations of mechanics as well as linear and nonlinear wave propagation analysis Discusses basic theory in addition to providing detailed NDE applications Provides extensive example and exercise problems along with an extensive solutions manual

Introduction to Subsurface Imaging Bahaa Saleh, 2011-03-17 Describing and evaluating the basic principles and methods of subsurface sensing and imaging Introduction to Subsurface Imaging is a clear and comprehensive treatment that links theory to a wide range of real world applications in medicine biology security and geophysical environmental exploration It integrates the different sensing techniques acoustic electric electromagnetic optical x ray or particle beams by unifying the underlying physical and mathematical similarities and computational and algorithmic methods Time domain spectral and multisensor methods are also covered whilst all the necessary mathematical statistical and linear systems tools are given in useful appendices to make the book self contained Featuring a logical blend of theory and applications a wealth of color illustrations homework problems and numerous case studies this is suitable for use as both a course text and as a professional reference

Current Trends in Computer Science and Mechanical Automation Vol.2 Shawn X. Wang, 2018-03-30 Frontmatter Contents Preface Introduction of keynote speakers Part IV Sensors Instrument and Measurement II Design of Remote Real

Time Measuring System of Temperature and Humidity based on Raspberry Pi and Java Language Design of Emotional Physiological Signal Acquisition System EMC Effects On High Resolution Spaceborne SAR Image Real time Pupil Detection based on Contour Tracking Chip Manufacturing Data Integration and Transmission A DCT domain based Research and Application of the Algorithm of Digital Audio Watermark Detection of Placido rings fracture based on ECC image registration Research on High precision Calibration and Measurement Method based on Stereo Vision Comparison of Three Weak Small Moving Target Detection Methods based on Time Domain Filtering Breath Sounds Detection System based on SOPC A Novel Fiber optic Sensor for the Determination of Melting Point of Solids Method for Measuring Internal Liquid Level of Sealed Metal Container by Ultrasonic Design of Silicon on Sapphire Pressure Sensor For High Temperature And High Pressure Applications The Federated Filtering Algorithm based on the Asynchronous Multisensor System A Kind of Self tuning Kalman Filter for the High Maneuvering Target Tracking System A Multitasking Run Time Prediction Method based on GBDT in Satellite Ground Application System Unmanned Ground Vehicle Behavior Decision via Improved Bayesian Inverse Reinforcement Learning Analysis of the High Frequency Vibration on Radar Imaging in the Terahertz Band Object Tracking for Satellite Video based on Kernelized Correlation Filters and Three Frame Difference Noise Removal and Detail Enhancement of Passive Infrared Image Pretreatment Method for Robot Vision Failure Mechanism and Support Strategy of Deep Roadway with High Horizontal Stress and Broken Rock Masss Design of a Climbing Robot for Nuclear Environmental Monitoring Part V Mechatronics and Electrical Engineering I The design and simulation of the new Space Release Device The Adjusting Method of Box Girder Pose based on Spatial Coordinate Transformation Application of Discrete Element Method in the Analysis of Loader Shovel Loading Process Application of Piecewise Catenary Method in Length Calculation of Soft Busbar in Ultra high Voltage Substation Calculation Method of Stiffness Matrix in Non linear Spline Finite Element for Suspension Cable A Load Outage Judgement Method Considering Voltage Sags Macro Program Application on Non circular Curve Machining in CNC Lathe Singular Configuration Analysis for the Structure of Hybrid Grinding and Polishing Machine Static Analysis and Size Optimization for the Bed of Gantry Milling Machine based on ANSYS Workbench Research and Optimization of Clip Type Passive Manipulator Research on Material Removal of Belt Polishing for Blade Complex Surface Visual Servoing based object pick and place manipulation system Research on Wind Loads of Container Ship based on CFD Design and Research of Model Sting Support Control System of Icing Wind Tunnel Development of Control System of Icing Wind Tunnel Railway Track Collapse Monitoring System in Mining Area based on KALMAN Filter The Method of Harmonic Source Identification in Power Supply System Optimization for the Balancing Cylinder of a 3 DOF Planar Manipulator Finite Element Modal Analysis of an Eight axis Industrial Robot Painting System Applied to Boarding Bridge Painting Bayesian based Fault Identification for Nonlinear Mechatronic System with Backlash A CAD CAE Integrated Optimization of Hot Runner System Study On Tool Path Design for a Novel Incremental Sheet Metal Bending Process Research on Tribological

Characteristics of 316L Stainless Steel against PEEKHPV under Water Lubrication Turbofan Engine Controller Optimal Design based on Grey Wolf Optimizer Part VI Mechatronics and Electrical Engineering II Research of the EMI Suppression Circuit in the ASM Power Research on the Relationship Identification and Governance Countermeasures of Stakeholder in Two Phases of Thermoelectric Projects Study on the Fluctuating Pressure and Aerodynamic Noise at Car Rearview Mirror Zone Model and Simulation of Vehicle Based on Modelica Language Research on Asynchronous Starting Characteristics of Synchronous Motors Based on TSC Reactive Power Compensator Motorcycle Engine Controller Design and Matlab Simulink Simulation An Efficient Bilinear Factorization based Method For Motion Capture Data Refinement Reliability Evaluation of Embedded Real time System based on Error Scenario Coordinate Transformation on CNC Machining of Quasi Hypoid Gear Study on the Influence of Rolling Wheels on Car External Flow Field and Aerodynamic Noise Hardware Software Partitioning Algorithm under Multi Constraints for the Optimization of Power Consumption Research of Metering Arithmetic for Distortion Power Study of the Influence of the Diode Ideality Factor on the Si Solar Cell Application of the Haar Classifier in Obstacle Target Detection Virtual Assembly Process Simulation for Hybrid Car Battery based on DELMIA Information Flow Integrity of ECPS based on Domain Partition Simulating the Time Domain Response for Monopole Antennas Excited by DC Voltage Source Permanent Magnet Brushless DC Motor Driver Base On DSP56F8346 The Study on the Power Transmission Line Icing Image Edge Detection based on DTW Measure Cluster Analysis

Waves Sanichiro Yoshida, 2018-01-12 Waves are everywhere in our daily life We all experience sound and light with our ears and eyes we use microwaves to cook and radio waves are transmitted from and are received by our cell phones These are just some examples of waves that carry energy from point A to B However we may not know details of the physics underlying all these waves It is important to understand the mechanisms that generate wave dynamics for a given system It is not straightforward to explain how an electromagnetic field becomes oscillatory and propagates as a wave Waves sometimes represent the underlying dynamics of observed phenomena at a fundamental level of physics This book is designed to explore these mechanisms by discussing various aspects of wave dynamics from as many perspectives as possible The target audiences are undergraduate students majoring in engineering science and graduate students majoring in general engineering Going beyond the typical approach to learning science this book discusses wave dynamics and related concepts at various levels of mathematics and physics sometimes touching on profound physics behind them This book was written to help readers learn wave dynamics on a deep physical level and develop innovative ideas in their own fields

Review of Progress in Quantitative Nondestructive Evaluation, 2005 Review of Progress in Quantitative Nondestructive Evaluation Donald O. Thompson, Dale E. Chimenti, 2002-05-24 This series provides a comprehensive review of the latest research results in quantitative nondestructive evaluation NDE Part A of Volume 21 details the development of nondestructive evaluation techniques Part B addresses advances in materials characterization new applications and reliability

Review of Progress in Quantitative

Nondestructive Evaluation Dale E. Chimenti, Donald O. Thompson, 2004-03-26 The papers in this proceedings volume were reviewed by qualified scientists before acceptance The Review of Progress in Quantitative NDE has established itself as the world's leading forum for the presentation of research and early engineering demonstrations in quantitative nondestructive evaluation It is international in scope and broadly interdisciplinary in content covering recent developments in measuring techniques ultrasonics electromagnetics x rays thermal acoustic emission etc and their applications to materials characterization and structural integrity Ultrasonic And Advanced Methods For Nondestructive Testing And Material Characterization Chi Hau Chen, 2007-05-24 Ultrasonic methods have been very popular in nondestructive testing and characterization of materials This book deals with both industrial ultrasound and medical ultrasound The advantages of ultrasound include flexibility low cost in line operation and providing data in both signal and image formats for further analysis The book devotes 11 chapters to ultrasonic methods However ultrasonic methods can be much less effective with some applications So the book also has 14 chapters catering to other or advanced methods for nondestructive testing or material characterization Topics like structural health monitoring Terahertz methods X ray and thermography methods are presented Besides different sensors for nondestructive testing the book places much emphasis on signal image processing and pattern recognition of the signals acquired

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Table of Contents Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach

1. Understanding the eBook Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
 - The Rise of Digital Reading Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
 - Advantages of eBooks Over Traditional Books
2. Identifying Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
 - User-Friendly Interface
4. Exploring eBook Recommendations from Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
 - Personalized Recommendations
 - Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach User Reviews and Ratings
 - Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach and Bestseller Lists
5. Accessing Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach Free and Paid eBooks
 - Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach Public Domain eBooks
 - Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach eBook Subscription Services
 - Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach Budget-Friendly Options

6. Navigating Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach eBook Formats
 - ePub, PDF, MOBI, and More
 - Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach Compatibility with Devices
 - Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
 - Highlighting and Note-Taking Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
 - Interactive Elements Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
8. Staying Engaged with Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
9. Balancing eBooks and Physical Books Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
 - Setting Reading Goals Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
 - Fact-Checking eBook Content of Fundamentals Of Ultrasonic Nondestructive Evaluation A Modeling Approach
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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