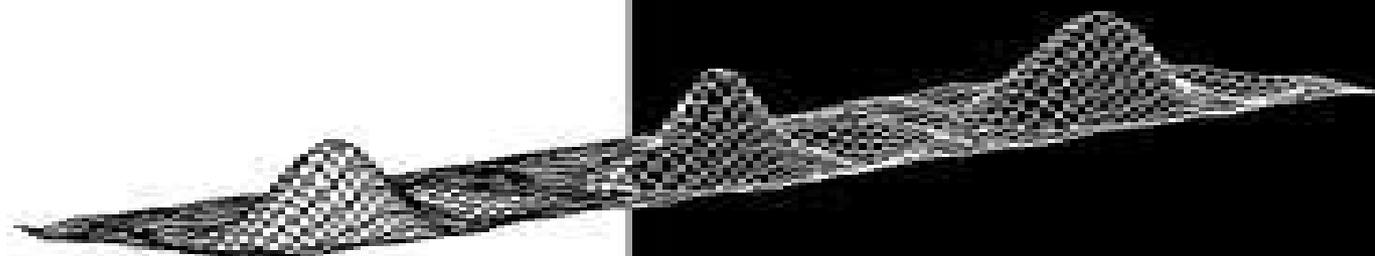


NON-DESTRUCTIVE EVALUATION

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Microwave Non-Destructive Testing and Evaluation



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R. Zoughi



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Microwave Non-Destructive Testing and Evaluation Principles R. Zoughi, 2000-02-29 This book provides a thorough and coherent understanding of the fundamentals of microwave non destructive evaluation principles This is achieved by starting with the basic understanding of subjects such as waves material media interaction of waves at high frequencies with material media understanding the fundamentals of reflection refraction transmission and wave polarization All these issues are addressed in a concise manner providing a much needed text on this subject Each chapter has a set of problems and questions with solutions and worked examples thus making the book of great use to those teaching in this area This book will also be invaluable to all those conducting research in microwave NDE whether based in an industrial or academic environment

Microwave Non-Destructive Testing and Evaluation Principles R. Zoughi, 2014-01-15 **Microwave Non-Destructive Testing and Evaluation Principles** R. Zoughi, 2012-12-06 Microwave and millimeter wave non destructive testing and evaluation NDT E is generally understood to mean using high frequency electromagnetic energy to inspect and characterize materials and structures In spite of possessing some distinct advantages in certain applications to other NDT E techniques microwave NDT E has only found compared limited practical application during the past 45 years These advantages include lack of a need for contact between the sensor and the object being inspected the ability to penetrate dielectric materials and superior sensitivity to certain material constituents and flaws One factor contributing to this minimal acceptance by the NDT E community has been a generally poor understanding in this community of the theory and practice that underlie the technology This situation exists partly because of a paucity of microwave NDT E textbook and reference material Some chapters reviews and books aimed at filling this need have been published in the past but for the most part this material is based on the use of older microwave technology However during the past ten years great strides have been made in terms of the cost size and ease of use of microwave components In addition recent advances in modeling and measurement techniques have expanded the range of applications for microwave NDT E Such applications include inspecting modern materials such as composites detecting and characterizing surface flaws and evaluating the compressive strength of cement structures These advances have created an urgent need for up to date textbook material on this subject

Polymers and Electromagnetic Radiation Wolfram Schnabel, 2014-01-10 This first book to cover the interaction of polymers with radiation from the entire electromagnetic spectrum adopts a multidisciplinary approach to bridge polymer chemistry and physics photochemistry photophysics and materials science The text is equally unique in its scope devoting equal amounts of attention to the three aspects of synthesis characterization and applications The first part deals with the interaction of polymers with non ionizing radiation in the frequency range from sub terahertz via infrared radiation to visible and ultraviolet light while the second covers interaction with ionizing radiation from the extreme ultraviolet to ray photons The result is a systematic overview of how both types of radiation can be used for different polymerization approaches

spectroscopy methods and lithography techniques Authored by a world renowned researcher and teacher with over 40 years of experience in the field this is a highly practical and authoritative guide **Technical Abstract Bulletin , Materials Evaluation** ,2006 *Books In Print 2004-2005* Ed Bowker Staff,Staff Bowker, Ed,2004 *Non-Destructive Testing of Fibre-Reinforced Plastics Composites* J. Summerscales,1990-09-30 **British Journal of Non-destructive Testing** ,1992 **Subject Guide to Books in Print** ,1996 *Microwaves and Metals* Manoj Gupta,Eugene Wong Wai Leong,2008-02-26

Using microwaves to treat metal based materials is rapidly emerging as an energy efficient tool to interact with metals for a number of processes such as sintering melting brazing carburizing and annealing Microwaves can sinter a wide variety of metal compacts with comparable or enhanced end properties while at the same time delivering tremendous energy savings over conventional sintering Microwave processes are therefore gaining increasing attention and adoption in both academia and industry Gupta and Wong have written this comprehensive text to introduce readers to the world of microwaves and the interaction of microwaves with metals and metals based formulations The authors have combined numerous research results from a wide range of sources alongside their own work in the field Also included are overviews of microwave heating of other non metal materials and the equipment used for microwave assisted metallurgy With microwave techniques poised for widespread adoption Microwaves and Metals is an essential text for all metallurgists and materials engineers Provides a thorough grounding in microwave fundamentals and their application to metals processing Informs readers of the latest developments in the field Presents a convenient single source for all aspects of microwave processing of metals and materials Contains liberal illustration to compare and benchmark research results Introduces all the necessary equipment preparing readers for real world practice Microwaves and Metals is ideal for a post graduate or advanced undergraduate course in materials science or metallurgy Materials and metallurgical engineers in industry who are keen on cheaper faster techniques will also benefit from this book **Government Reports Index** ,1973 *Government Reports Annual Index* ,1969 **Electromagnetic Testing** Robert Charles McMaster,1986 **Bibliography of Scientific and Industrial Reports** ,1971 *Books in Print* ,1991 Books in Print Supplement ,2002 Ceramic Abstracts ,2000 *Metals Handbook: Nondestructive inspection and quality control* ,1961 **Government Reports Announcements** ,1973-03

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