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The Potential of Selected Agricultural Wastes Fibers as Acoustic Absorber and Thermal Insulator Based on their Surface Morphology via Scanning Electron Microscopy

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ABSTRACT

Natural fibrous materials have been studied to address noise and high heat indices, but many of the existing studies about natural fibers do not sufficiently support their claims of better acoustical and heat insulating materials. Thus, this study investigated the surface morphology of easily available agricultural materials such as coconut husks, banana pseudostem and sugarcane husk for their potential as sound absorbers and thermal insulators. Fiber pads from the materials were constructed and analyzed for noise reduction coefficients, thermal insulating performance, water absorbing capacity and flame tolerance - using the methods specified in the American Society for Testing Materials. Herein, scanning electron microscopy (SEM) was applied for analytical imaging of the agricultural materials. Noise reduction coefficients (0.80 dB and 0.92 dB), (0.75 dB and 0.78 dB) and (0.50 dB and 0.35 dB) each at 800 Hz and 440 Hz, and heat reductions of 2.56 °C, 1.71 °C, and 1.24 °C were obtained from coconut husk, sugarcane husk and banana pseudostem, respectively. The coconut husk also gave the highest water absorbing capacity and high flame tolerance of 56%, compared to that of sugarcane husk (49%) and banana pseudostem (32.67%). The morphology of the coconut husk, after SEM application revealed more diverse microporous cells with varying shapes and sizes compared to that of sugarcane husk and banana pseudostem. Thus, results indicate that porosity affects the noise and heat reduction indices of the fibers. The more porous the material is, the better its potential as sound absorber and thermal insulator.

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Foundations of Biomedical Ultrasound Richard S. C. Cobbold, 2007. *Foundations of Biomedical Ultrasound* provides a thorough and detailed treatment of the underlying physics and engineering of medical ultrasound practices. It covers the fundamental engineering behind ultrasound equipment, properties of acoustic wave motion, the behavior of waves in various media, non-linear waves, and the creation of images. The most comprehensive book on the subject, *Foundations of Biomedical Ultrasound* is an indispensable reference for any medical professional working with ultrasound imaging and a comprehensive introduction to the subject for students. The author has been researching and teaching biomedical ultrasonics at the University of Toronto for the past 25 years.

Medical CT & Ultrasound: Current Technology & Applications - AAPM Summer School 1995 Lee W. Goldman, Brian J. Fowlkes, 1998-12. The Optics Encyclopedia Thomas Gordon Brown, 2004.

Acoustical Imaging Roman Gr. Maev, 2012-12-06. This book constitutes the Proceedings of the 26th Symposium on Acoustical Imaging held in Windsor, Ontario, Canada, during September 9-12, 2001. This traditional scientific event is recognized as a premier forum for the presentation of advanced research results in both theoretical and experimental development. The IAIS was conceived at a 1967 Acoustical Holography meeting in the USA. Since then, these traditional symposia provide an opportunity for specialists who are working in this area to make new acquaintances, renew old friendships, and present recent results of their research. Our Symposium has grown significantly in size due to a broad interest in various topics and to the quality of the presentations. For the first time in 40 years, the IAIS was held in the province of Ontario in Windsor, Canada's Automotive Capital and City of Roses. The 26th IAIS attracted over 100 specialists from 13 countries representing this interdisciplinary field in physical acoustics, image processing, applied mathematics, solid state physics, biology, and medicine, industrial applications, and quality control technologies. The 26th IAIS was organized in the traditional way with only one addition: a Special Session History of Acoustical Imaging with the involvement of such well-known scientists as Andrew Briggs, Noriyoshi Chubachi, Robert Green Jr., Joie Jones, Kenneth Erikson, and Bernhard Tittmann. Many of these speakers are well-known scientists in their fields, and we would like to thank them for making this session extremely successful.

Nondestructive Materials Characterization Norbert G. H. Meyendorf, Peter B. Nagy, Stanislav I. Rokhlin, 2013-11-21. Nondestructive Evaluation (NDE) becomes a key discipline for modern technology. Information about materials defects and properties is significant to guarantee the reliability of a product and avoid fatal accidents. For instance, technologies with high safety requirements like aviation, automotive, and energy production are driving forces for NDE.

Keeping in mind that aging of the infrastructure is an issue in all industrial countries and that for example an aircraft can have a lifetime of several decades poses new challenges for NDE and especially nondestructive materials characterization. Besides the traditional in field applications NDE becomes more and more a tool to study materials degradation processes and to provide engineers with input data for sophisticated models describing materials behavior and the life of components. At present this marriage of NDE and materials modeling shows significant success in predicting damage progression corrosion fatigue and thus an enhancement of availability and reliability of components and complete aircraft. This book will give a snapshot of the present research in materials characterization of aging aircraft. Methods considered are x ray ultrasonic optical and thermal techniques and in particular techniques with high spatial resolution to detect and quantify early stages of degradation or to characterize materials microstructure. Every chapter briefly describes the basics and the principles of one NDE method under consideration. Discussing recent research results by applying these methods completes the chapters. The readers will get an overview of the present state of the art of materials characterization techniques. *Principles of Soldering* Giles Humpston, David M. Jacobson, 2004 *Scientific and Technical Aerospace Reports*, 1991

Microelectronic Failure Analysis Desk Reference, 2001-01-01 Developed by the Electronic Device Failure Analysis Society EDFAS Publications Committee **Failure Modes and Mechanisms in Electronic Packages** P. Singh, Puligandla Viswanadham, 2012-12-06 Those of us who grew up in the through hole age of electronic packaging are probably more amazed and appreciative than are our children at the incredible growth of electronic performance capability. My son an electrical engineering student seems almost to take for granted the innovations that leave me somewhat awestruck at times. Electronic circuit designers delight in packing more punch into less volume while reminding us that their job has become increasingly challenging. The lay person also has learned from the media that the industry has been working wonders in shrinking the transistor and expanding the power of the chip. Much attention is focussed on the silicon and on the marvelous production and entertainment tools we now see in our offices and homes. Between the silicon and the end product lies the less publicized world of circuit level packaging. We leave it to a cadre of technologists to take the schematics and parts lists and to develop the processes that turn the designers concepts into physical reality. And while the silicon transistor is shrinking the engineering challenges of packaging multiple chips and associated components into increasingly dense subsystems are growing. Further the transistor may have to function without failure through severe industrial or military environments over the lifetime of the product. **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards, 1988 **Semiconductor Packaging** Andrea Chen, Randy Hsiao-Yu Lo, 2016-04-19 In semiconductor manufacturing understanding how various materials behave and interact is critical to making a reliable and robust semiconductor package. Semiconductor Packaging Materials Interaction and Reliability provides a fundamental understanding of the underlying physical properties of the materials used in a semiconductor package. By tying together the

disparate elements essential to a semiconductor package the authors show how all the parts fit and work together to provide durable protection for the integrated circuit chip within as well as a means for the chip to communicate with the outside world The text also covers packaging materials for MEMS solar technology and LEDs and explores future trends in semiconductor packages

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In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is truly awe-inspiring. Enter the realm of "**Selected Papers On Scanning Acoustic Microscopy**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound affect on the souls of its readers.

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web back at buffy s ampata s trunk has arrived from the bus depot and as buffy starts to open it the fake ampata tells her not to bother she distracts buffy by talking more about the inca mummy s ceremonial seal the camera briefly shows that inside the trunk is the mummified corpse of the real ampata

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