FIRED 0-3 PIEZOELECTRIC COMPOSITE NATERIALS FOR MICHEDICAL ULTRASONIC ISMGING APPLICATIONS*

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ARSTRACT

Piezoelectric composite materials have found wide applications in various transducer devices as they can basily be tailored to the specific moods of a device engineer. Rocently developed fired 0-3 composites show ercouraging properties as transducers for biomedical Imaging applications. Fired 0-3 composites ere prepared by pressing pollets of PVI powder, heat treating them at different temperatures from 7000 C to 9000 C, and back filling with different polymers. The piezoelectric properties of talk material have been evaluated using a resonance technique. In tris type of composite, thickness coupling factors are in the range of 0.28 to 0.35. d₂₃ is 80-200 pC/N, acoustic impedance is 8-12 I ray and the dielectric constant in 150-500, depending on the firing condition and the type of polymer used. These proporties have been studied as a function of temperature from -500 C to 1969 C. The pulse-echo response, the trensmitting and receiving voltage response of these composites in water redime are reported. From these data the options firing and poline condition and the type of bolymer are determined.

IIITRODUCTION

Lead Zirconete Istenate (PZT) ceromics are used catensively as a piezoelectric material despite their several shortcoatings. Though PZT has a large dag coefficient, 't has various other disadvantages. In most electronic sevices there are several preses involved and number of naterial persectors have to be optimized. An electromechanical transducer, for example, might negative a combination of properties such as large piezoelectr's coefficient (d or q), how dessity and high recharical fleatbility. High density of PZT makes it difficult to obtain special ended to febricate sensors with different shapes will he difficult attential

To overcome these problems, two phase material will be better compared to a single phase material. A composite material combining the destinable proporties of two different phases might be wastly superior. The main problem is to effect the combination of the two phases to maximize the figure of merit. The earlier work on communicacitymer

composites for piezoelectric devices can be found elsewhere. 1-2 Combining material roams not only choosing component phase with the right properties but also coupling them in the best manner. A wariety of composite with different conrectivities are feasible. 3 The combination adopted by us is the 0-3 connectivity.

A composite with D-3 connectivity consists of a three-dimensionally connected polymer matrix leaded with piezoelectrically active naturally connected in zero dimension. D-3 composite material is easy to febricate and one can make very thin shorts from them. The ministure ultraspect charsduper for biomedical application require very thin piezoelectric sensors. This type of composite is easy to febricate.

Earlier attempts were mude to fabricate 0-3 flexible composite with lead titurate as the active material. They used recified lead titurate since it save greater piezoelectric amisotropy. The leat titurate was produced by water quenching the ceramic. The particle size used was int. To make the composite, the piezoelectric powder and chloruprene rubber were rised and roller into 0.5 within the sweets at 40° C using a hot maller and then heated at 190° C for 20 minutes under a prensure of 13 kg/cm2. It was shown in this paper that leading in excess of 60 volume percent filler is required to achieve useful preparate triproperties. By adopting such but rolling processes it is difficult to get a higher loadings of the filler in the composite.

In the present paper, the nethod of preparing 0-3 composites with leadings of 552 - 705 filler is described. A piezoelectric response is obtained which depends on the firing condition of the composite. These properties were studied as a function of temperature from -500 C to 1007 C. The receiving response of this material in mater medium is determined and the same is reported. From United data the optimum firing and poling condition and the tyre of polymer has been determined.

COMPOSITE PREPARATION AND POLICES.

Piezoelectric material used in this study was PZT-SCIA powder obtained from Ultrasonic Powder Inc. To prepare composite 100 gcs of filler material was mixed with 7 yes of 20 ett PVA solution in water and pressed into collets (thickness 0.15 to 0.20 cms and dismeter = 1.6 cms) at 1.4 x 10¹⁸ M/m² pressure. The pellets were placed on alumina plates and beat treated at different temperatures harely 700° C. 900° C and 900° C for 90 minutes and cooled to room temperature in 90 minutes. Thus the PVA

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- 1. Understanding the eBook 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
 - The Rise of Digital Reading 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
 - Advantages of eBooks Over Traditional Books
- 2. Identifying 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
 - 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 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
 - Personalized Recommendations
 - 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By User Reviews and Ratings
 - 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By and Bestseller Lists
- 5. Accessing 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By Free and Paid eBooks
 - 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By Public Domain eBooks
 - 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By eBook Subscription Services
 - 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By Budget-Friendly Options
- 6. Navigating 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By eBook Formats
 - ePub, PDF, MOBI, and More
 - 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By Compatibility with Devices
 - 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By Enhanced eBook Features

- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
 - Highlighting and Note-Taking 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
 - Interactive Elements 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
- 9. Balancing eBooks and Physical Books 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
 - Setting Reading Goals 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
 - Fact-Checking eBook Content of 1987 Ieee Ultrasonic Symposium Denver Co October 1987ch24927 By
 - 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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