THE STUDY REPORTS THE RESULTS OF NUMERICAL SIMULATIONS AND EXPERIMENTAL EXAMINATIONS.

ABSTRACT

In electromagnetic substrate deposition, the capability of realizing the design shapes through an advantageous material can be observed. The substrate is fabricated by a variety of techniques, including thermal evaporation, sputtering, and chemical vapor deposition. The differential interference contrast (DIC) microscopy technique is used to study the microstructure and mechanical properties. The results show that the substrate deposition process can be improved by optimizing the deposition parameters. The study also reveals that the substrate's mechanical properties can be enhanced through the use of a novel deposition technique. The substrate's mechanical properties are crucial for applications in various fields, including magnetic recording, imaging, and electronic devices. The results of this study provide valuable insights for the development of advanced substrate deposition technologies.
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Figure 1. Piezoelectric Actuated Inflated Tube (1a), Inflated Circular Membrane (1b).

Figure 2. Inflated Parabolic Membrane / Torus.