

Multiscale and Functionally Graded Materials 2006

Proceedings of the International Conference FGM IX

All papers have been peer-reviewed. Multiscale and Functionally Graded Materials (FGMs) are characterized by spatially varied microstructures created by non-uniform distributions of the reinforcement phase with different properties, sizes and shapes, as well as, by interchanging the role of reinforcement and matrix materials in a continuous manner. Such multi-phase materials cover a range of space and time scales, and are best understood by means of a comprehensive multiscale multiphysics approach. Such materials have a broad range of applications including, for example, biomechanical, automotive, aerospace, mechanical, civil, nuclear, and naval engineering. New applications are continuously being discovered and developed. This conference provided opportunities for exchanging, discussing and enhancing the state-of-art techniques and recent developments in the fields of FGMs. These proceedings are an excellent source of information for graduate students and professionals in the area, either in academia or in the industry.



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