

COMPUTATIONAL ANALYSIS OF ADVANCED MATERIALS AND STRUCTURES

TRACK NUMBER (500)

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Key words: Composite Structures, Advanced Materials, Computational Mechanics, Interface problems in composite structures.

ABSTRACT

Advanced materials and Structures have an increasing role in engineering, in various industrial applications [1-3]. These structures operate in severe environments, withstand complex multi-axial loading conditions. Fracture of advanced materials is also a major problem that may occur inside the structures consisting of different materials and at the interfaces between the different advanced materials.

Topics of interest include but are not limited to the Computational analysis of composite structures made from advanced materials, Failure of composite structures, Comparison of computational and experimental methods in composite structures from advanced materials, Computational analysis of interface problems in composite structures, Computer aided design in composite structures, Computational study of constructions made of advanced materials.

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