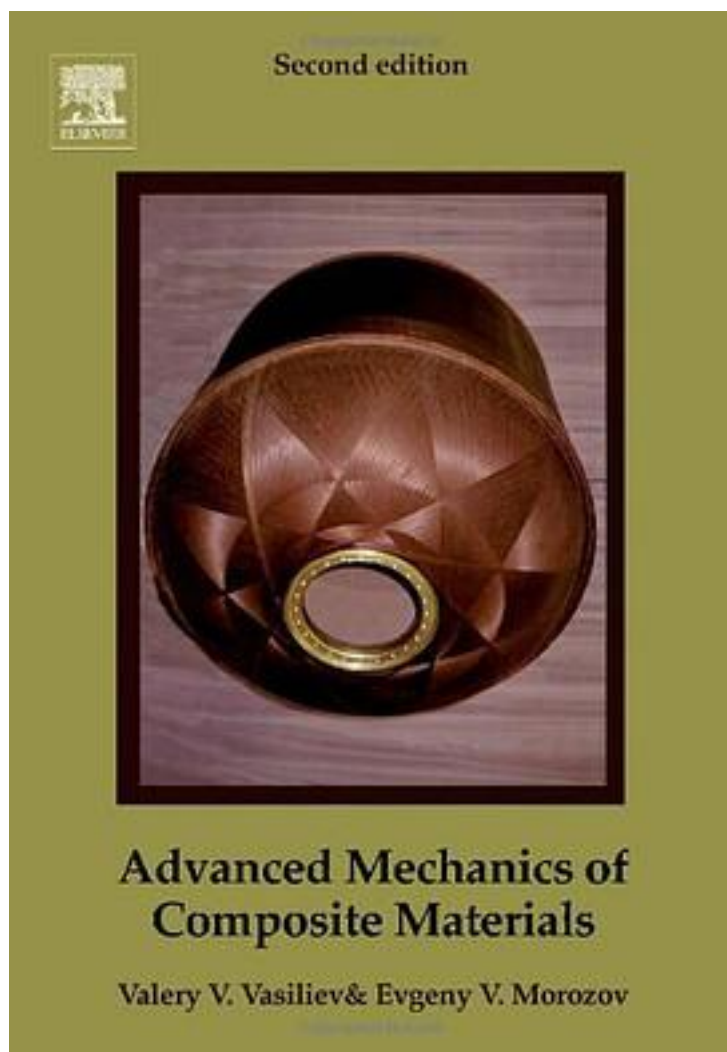


# Advanced Mechanics of Composite Materials



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Composite materials have been representing most significant breakthroughs in various industrial applications, particularly in aerospace structures, during the past thirty five years. The primary goal of "Advanced Mechanics of Composite Materials" is the combined presentation of advanced mechanics, manufacturing technology, and analysis of composite materials. This approach lets the engineer take into account the essential mechanical properties of the material itself and special features of practical implementation, including manufacturing technology, experimental results, and design characteristics. This title gives complete coverage of the topic: from basics and fundamentals to the advanced analysis including practical design and engineering applications. At the same time, it includes a detailed and comprehensive coverage of the contemporary theoretical models at the micro- and macro- levels of material structure, practical methods and approaches, experimental results, and optimisation of composite material properties and component performance. The authors present the results of more than 30 year practical experience in the field of design and analysis of composite materials and structures. It also includes: eight chapters progressively covering all structural levels of composite materials from their components through elementary plies and layers to laminates; detailed presentation of advanced mechanics of composite materials; and, emphasis on nonlinear material models (elasticity, plasticity, creep) and structural nonlinearity.

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