Preface

The main topics of this special edition are non-conventional material processing technologies, both conventional materials and materials with specific properties for functional applications. The electrochemical and electro-physical machining processes, including precision pulsed electrochemical machining, laser beam cutting, additive manufacturing, layered hybrid composite tube manufacturing, etc. The edition ranges from surface engineering to forming methods of complex hybrid composite materials. The research results for numerical modelling of the mechanical behaviour of innovative non-conventional materials and hybrid structures are also presented here.

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