

Materials Processing and Design, Modeling, Simulation and Applications Numiform 2004 2004



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The conference is held to provide a forum for international researchers and practitioners from academia, industry, and laboratories to discuss recent advancements and future directions in the modeling of various manufacturing processes and related materials issues. The conference addresses computational modeling and simulations of traditional metals and polymers processing methods, as well as of advanced materials and emerging manufacturing technologies at different scales. The proceedings is divided into subsections based on the broad scope of the subject areas as follows: polymer processing; composite materials and their processing; bulk forming, rolling, extrusion, drawing and forging; sheet metal forming; hydroforming and superplastic forming; casting, welding and sintering; machining; non-conventional materials processing; modeling materials at micro and nano-scales;

materials characterization and constitutive modeling at different scales; localization and damage modeling in materials and processing;process design and optimization; and advances in numerical methods.

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