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Improvement of soft tooling process

By Arup Nandi

LAP Lambert Academic Publishing Apr 2012, 2012. Taschenbuch. Condition: Neu. Neuware - An introduction of different rapid tooling processes with various associated drawbacks specifically in soft tooling process where flexible reactive polymeric materials are used for making mould is presented here. One of the significant drawbacks, namely longer solidification time is taken into consideration which has been solved using particle reinforcement with mould materials towards improvement of soft tooling process. An in-depth experimental study on the physical properties (thermal conductivity, modulus of elasticity and viscosity) of composite mould materials is carried out. A new intelligent approach is proposed in order to design the particle-reinforced mould materials through modeling, optimization and followed by multi-criterion decision making. The intelligent approach includes a genetic-fuzzy system, multi-objective evolutionary algorithms and decision making tools. The interest of scientific contributions in this book is evident for many important centers of the research and universities in the world as well as particularly practitioners in this field. Moreover, many concerned industries may be benefited as the book aims to solve a real industrial problem. 180 pp. English.



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