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This book focusses on additive manufacturing including many aspects, like vacuum assisted high pressure die casting, semi-solid metal casting, compressive and tensile forming processes, micro and nano machining, nanocomposite manufacturing, adhesive bonding, laser cutting and joining. Subtopics like modelling and optimization of manufacture processes, design for manufacturing strategies, development of new manufacturing technologies, design of novel manufacturing equipment, comparative case studies, cost and quality analysis, ecological aspects and destructive and non-destructive testing of manufactured components are also presented. The book provides a state of the art of engineering manufacture and also serves as a reference volume for researchers and graduate students using technological processes. This volume gathers selected contributions of the 1st International Conference on Engineering Manufacture 2022, held in Porto, Portugal, on May 5â6, 2022.

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