



Novel Processes for Advanced Manufacturing: Summary of a Workshop (Paperback)

By National Research Council, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board

National Academies Press, United States, 2014. Paperback. Condition: New. Language: English . Brand New Book. The Standing Committee on Defense Materials Manufacturing and Infrastructure (the DMMI standing committee) of the National Materials and Manufacturing Board of the National Research Council (NRC) held a workshop on December 5 and 6, 2012, to discuss new and novel processes in industrial modernization. The participants of the workshop provided their individual opinions but no recommendations were developed as a result of the workshop. The workshop focused on Additive manufacturing, electromagnetic field manipulation of materials, and design of materials. Additive manufacturing is the process of making three-dimensional objects from a digital description or file. The workshop addresses different aspects of additive manufacturing including surface finish and access to manufacturing capabilities and resources. Electromagnetic field manipulation of materials is the use of electric and/or magnetic fields to change the mechanical or functional properties of a material or for the purposes of sintering. The workshop examined research prioritization in this area as well as other objectives. Design of materials refers to the application of computational and analytic methods to materials to obtain a desired material characteristic; the workshop features a discussion on materials genomics in this area...



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