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Quantifying the Economic Benefits of Advanced Materials Products and Processes (Classic Reprint)

By Joel Clark

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from Quantifying the Economic Benefits of Advanced Materials Products and Processes This report details efforts of the Materials Systems Laboratory (MSL) to demonstrate a methodology for assessing the economic benefits of developmental materials technologies. The goal of this work was to provide the U.S. Department of Energy, Office of Industrial Technology (OIT) with an approach for evaluating future technology funding opportunities. The framework described herein is designed to be applicable to both initial assessments and detailed case studies. As a screening tool, it serves as a standard basis for evaluating multiple investment opportunities and yields a relevant comparison without requiring significant data collection efforts. For decisions which require additional reflection (e.g., later phase projects), the analysis can be enhanced through the addition of end-user preference data and more detailed market information. The models delivered in conjunction with this report were built using decision analysis theory as the underlying assessment basis. Utility theory is applied to gauge the position of a developmental technology relative to an incumbent, based on cost and performance characteristics of interest to the...



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