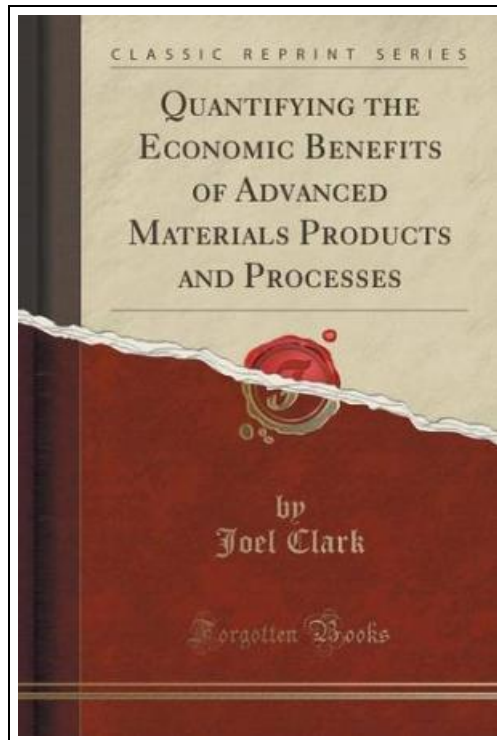


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Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.Excerpt from **Quantifying the Economic Benefits of Advanced Materials Products and Processes** This 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 end-user. This relative position in turn drives an estimate of market penetration, which ultimately yields forecasts of future sales potential and additional benefits such as energy saved or airborne emissions prevented. By conducting sensitivity analyses, evaluators can thus gauge what must occur, technically, for the new technology to have an appreciable chance of achieving commercial success. Applying these findings, directed technology funding decisions can be made based on the expected likelihood that the required technical and cost objectives can be attained. To develop an assessment, the evaluator must provide several key items to describe the technology and market under consideration:...



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