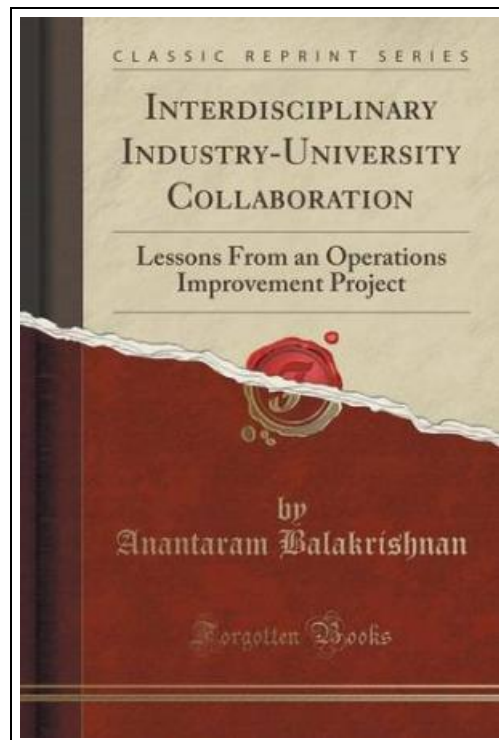


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Forgotten Books, United States, 2015. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****. Excerpt from Interdisciplinary Industry-University Collaboration: Lessons From an Operations Improvement Project A six-month Leaders for Manufacturing student internship at Alcoa, Lafayette brought together faculty from the Schools of Engineering and Management at MIT, and identified a promising operations improvement opportunity in tube manufacturing. This experience led to collaboration between Alcoa and MIT to bridge gaps between engineering and planning, and integrate successive stages in the manufacturing process. Participants in the project included production management and planners, process engineers at the Alcoa Technical Center, and MIT undergraduate and graduate students in engineering and management. The project not only sensitized management to the importance of taking a systems view of process planning but also generated several tangible products, including the development of performance metrics, diagnostic methods, and software for short-term and medium-term planning. The project also led to undergraduate and graduate thesis research at MIT and provided examples for classroom use. This paper presents a historical perspective of the collaboration process for this project, and discusses the enablers and challenges in conducting interdisciplinary, industry-university collaborative projects, including issues of goal congruence, mechanisms to foster collaboration, exploiting the synergies between education, research and practice, and the impact of organizational transitions. Background The Leaders for Manufacturing (LFM) program is a partnership for education and research in manufacturing and is composed of the Schools of Engineering and Management at MIT and thirteen U.S. firms. The program s vision is to discover and translate into teaching and practice principles that produce world-class manufacturing and manufacturing leaders. A centerpiece of the program is a dual degree (engineering and management) masters program that includes a 6-month on-site internship project for each student at one of the partner companies, supervised...



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