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Sommario/riassunto

Drawing on the findings of sector-specific workshops, e-mail surveys, research literature, expert testimony, and committee and panel members (TM) expertise, this National Academy of Engineering study assesses the qualitative impact of academic research on five industries "network systems and communications; medical devices and equipment; aerospace; transportation, distribution, and logistics services; and financial services. The book documents the range and significance of academic research contributions to the five industries "comparing the importance of different types of contributions, the multi- and interdisciplinary nature of these contributions, and the multiple vectors by which academic research is linked to each industry. The book calls for action to address six cross-cutting challenges to university-industry interactions: the growing disciplinary and time-horizon-related imbalances in federal R&D funding, barriers to university-industry interaction in service industries, the critical role of academic research in the advancement of information technology, the role of academic research in the regulation of industry, the impact of technology transfer activities on core university research and education missions, and the search for new pathways and mechanisms to enhance the contributions of academic research to industry. The book also includes findings and recommendations specific to each industry.