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## FROM MISSION-ORIENTED TO DIFFUSION-ORIENTED PARADIGM: NEW TREND OF U. S. INDUSTRIAL TECHNOLOGY POLICY (CLASSIC REPRINT) (HARDBACK)

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FBC LTD, 2018. Hardback. Condition: New. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*. Excerpt from From Mission-Oriented To Diffusion-Oriented Paradigm: New Trend of U. S. Industrial Technology Policy Mission-oriented policy attempts to generate and exploit radical innovation. Its ideal is to create entirely new industries based on new technologies. So it tends to compete in the early phase of technology life cycle, and emphasize heroic efforts in big science and technology, or major programs. These programs, mostly defense and aerospace-related, are highly sophisticated and normally put more emphasis on performance than on cost. It is expected that, in addition to accomplishing the designated missions, the large-scale, high-end technological achievements can somehow lead to many smaller-scale, less than high-end applications. More specifically, through government rd contracts or procurements of high performance products, the contractors can upgrade technical capabilities, accumulate production experience, and drive down th= cost. They then seek commercial applications. By this spin-off or trickle-down2 process to civilian industry, it is hoped that the government initial costly investment can ultimately be justified. By contrast, diffusion-oriented policy concentrates on acquisition, diffusion and assimilation of technology in industry. It attempts to increase value-added for existing products by improving quality, increasing efficiency or entering niche markets, rather than to create brand new industries. Moreover, especially in Japan, lower cost and lower risk fields are normally first targeted, and then used as stepping stones to accumulate experience and economic profits for competing in the next higher-end products. So incremental innovation is emphasized, and there are few large scale programs initiated by government mission agencies aimed at radical technological advancement. Though moving toward earlier phases of technology life cycle is also pursued, the key notion of this policy is to be a smart follower first, instead of a first mover who risks...



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