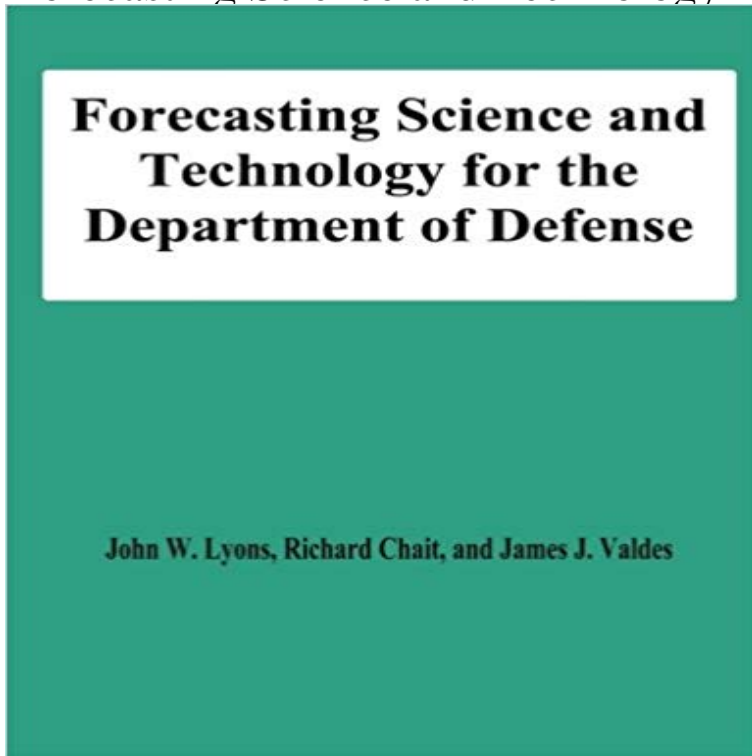


Forecasting Science and Technology for the Department of Defense



Since World War II, predictions of science and technology for military applications have occurred periodically. A study chartered by the Army Air Force predicted in 1947 a broad range of developments in aeronautics and air power and has been a model for such forecasts ever since. Projections in science and technology have been issued for many years by the National Research Council (NRC) of the National Academies, which publishes decadal studies for specific disciplines. Such studies for astronomy and astrophysics, for example, go back to at least 1964. An important task of DOD science and technology (S&T) programs is to avoid technological surprise resulting from the exponential increase in the pace of discovery and change in S&T worldwide. The nature of the military threat is also changing, with the result being new military requirements, some of which can be met by technology. Shaping the S&T portfolio requires predicting and matching these two factors well into the future. Some examples of technologies that have radically affected the battlefield include the Global Positioning System coupled with inexpensive, handheld receivers; the microprocessor revolution, which has placed the power of the Internet and satellite communications in the hands of soldiers in the field; new sensing capabilities such as night vision; and composite materials for armor and armaments. Some of these technologies came from military S&T, some from commercial developments, and still others from a synthesis of the two sectors, but all were based on advances in the underlying sciences. Clearly, leaders and planners in military S&T must keep abreast of such developments and look ahead as best they can. In the Department of Defense (DOD), the last series of forecast studies was done in the 1990s. In 2008, National Defense Universitys Center for Technology and

National Security Policy (CTNSP) assessed the Army's STAR 21 (Strategic Technologies for the Army of the Twenty-First Century) study,³ in which the basic and applied sciences were assessed and forecast as separate and discrete disciplines. Future capabilities were discussed in a separate set of STAR 21 volumes on systems. In general, the technologies of individual systems were not discussed with reference to the underlying sciences. This separation of future capabilities from the underlying S&T forecasts was true for the studies of all three services.

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