

Direct Transfer of Technology

The direct transfer of less sophisticated advances in technology and of new applications of more mature technology offers potential near-term economic benefit for the South. There are important opportunities for influencing global economic development with what we would view today as low technology, as opposed to the high-technology advances that are the primary goals of our research and development (R&D) efforts. The development of ocean transport since World War II illustrates this point.

In the early 1950s it was clear that no significant improvements in ocean transportation had occurred for over 150 years. The world shipping industry was still largely dependent on the 10,000-ton, 10-knot Liberty ship for bulk movements throughout the world. The clipper ships of the early nineteenth century sailed at higher speeds than the so-called modern ships of the 1950s, at least at times; the modern ships offered only greater schedule reliability. Furthermore, the clippers transported almost as much cargo and certainly operated at a fraction of the cost.

During that 150-year period, technological advances in land transportation, including railroads, trucking, and pipelines, conspired to bring about a substantial reduction in the real cost of moving bulk materials overland. This relative change in cost of land transport versus ocean transport influenced industrial development, and hence the economic and political growth patterns of the entire world.

In the mid-1950s companies began to push for the construction of larger ships based on new designs. This produced a complete revolution in ocean transportation throughout the 2 decades that followed. Hull forms were improved, propulsion machinery was advanced, and ship holds were modified to accommodate combination cargos. In the packaged cargo field, containerized shipping developed rapidly. The net result was a substantial reduction in the cost of ocean transportation in real terms during this period. By 1970 the cost of moving bulk material throughout the world was reduced to approximately 25 percent of the cost in 1950. During this same period, land transportation costs increased substantially in real terms. The result was, again, a major change in the pattern of global material movements. This new oceanic era generated a dramatic impact on economic growth and political relations throughout the entire world.

The Japanese, for example, built a steel industry on deep water, to

Technological Frontiers And Foreign Relations

Donald M Snow



Technological Frontiers And Foreign Relations:

Technological Frontiers and Foreign Relations, 1987 Technological Frontiers and Foreign Relations Anne G. Keatley, 1985 **The Pervasive Role of Science, Technology, and Health in Foreign Policy** National Research Council, Policy and Global Affairs, Office of International Affairs, Committee on Science, Technology, and Health Aspects of the Foreign Policy Agenda of the United States, 1999-11-09 Issues involving science technology and health STH have moved to the forefront of the international diplomatic agenda Other vital issues linked to technological developments pervade longer range foreign policy concerns Thus STH considerations are often central to the Department of State's bilateral and multilateral interactions with other governments STH aspects play a large role in discussions of such critical topics as nuclear nonproliferation use of outer space population growth adequate and safe food supply climate change infectious diseases energy resources and competitiveness of industrial technologies In addressing these issues expert STH knowledge is essential to the anticipation and resolution of problems and to the achievement of foreign policy goals The Department recognizing that it requires strengthened capabilities to address such an array of topics asked for suggestions by the National Research Council as to how it could better deal with foreign policy issues with STH content Weapons Proliferation in the 1990s Brad Roberts, 1995 The proliferation of weapons of mass destruction has emerged as a major topic of international security in the post Cold War world This compendium of articles published in The Washington Quarterly between 1991 and 1995 describes the changing nature of the problem discusses new trends in nonproliferation and counterproliferation policy identifies new arms control challenges at the regional and global levels and concludes by addressing the global politics of proliferation American Technology Policy J. D. Kenneth Boutin, 2013 Balancing the requirements of national security and economic competitiveness The Role of the National Academies United States. Congress. House. Committee on Science and Technology. Task Force on Science Policy, 1986 *U.S.-Japan Science And Technology Exchange* Cecil H Uyehara, 2021-11-28 An account of the 1988 US Japan Science and Technology Agreement 88STA The research methodology of the study is based on interviews and analysis of the relevant documents and articles augmented by an analysis of selected studies on US Japan and science and technology relations The author hopes to increase the reader's understanding of the bureaucratic process and negotiations within the US and Japanese government in drafting an agreement and the interaction of the negotiators in the outcome increase our knowledge about how the US Japanese relationship in science and technology in the public sector is managed throw some light on how domestic factors impact on preparing for a negotiating a new agreement between the US and Japan on science and technology develop insights into the negotiating styles of each country assess its role as a model agreement for negotiating similar agreements with other countries learn some lessons for future negotiations with Japan in the science and technology area and with other countries if this Agreement is to be used as a model **Complete Catalog of Books and Periodicals** National Academy Press

(U.S.),1990 *National Academy Press ... Publications Catalog* ,1985 Science and Foreign Policy George Pratt Shultz,1985 **Poverty, Natural Resources, and Public Policy in Central America** Sheldon Annis, Suggests specific guidelines for linking responsible environmental management and economic development Includes proposals for international peace parks fostering conservation institutions and modifying nontraditional agricultural exports Handbook of Latin American Studies v 57 *The Shape of the Future* Donald M Snow,2016-07-01 Now in its millennial edition this popular text outlines an emerging international system that is both distinguishable from the past and stable enough to prevail into the new century Sure to provoke classroom discussion The Shape of the Future is an ideal supplementary text for a range of college courses on the contemporary world **Industrial Policies and Structural Change** Christopher Saunders,2015-12-30 **New Worlds, New Technologies, New Issues** Stephen H. Cutcliffe,1992 In this volume fifteen scholars from the United States Spain Puerto Rico and Colombia discuss the social implications of new technologies Their essays address the cultural worlds that crystallize around technologies the challenges to democracy that they pose and the responsibility of modern technology for forcing a public response to new social and moral issues Three themes define the three sections into which the volume is divided New Worlds New Technologies and New Issues The essays in the section New Worlds range from optimism that new technologies will produce a better world than that of 1992 through a nonjudgmental discussion of the transformation of our lifeworld that new technologies are effecting to deep concern for the viability of the world that modern technology has already created In New Technologies the focus is on political responses to modern technologies The authors in this section see the challenge to understanding and controlling our technological world in reshaping existing relations of social power and authority and in creating new institutions more adequate to the sociopolitical realities of the process of technological innovation While the contributors in the first two sections of the volume argue that broad changes in values and institutions are preconditions of a more beneficent relationship among people nature and technology those in the section New Issues adopt narrower more specific viewpoints Their essays address the political values underlying the Deep Ecology movement the ethics of military technologies the capacity of democratic institutions for a public role in setting technology policies and science and technology literacy mechanisms Collectively these essays reflect the growing international concern with the role played by technological innovation in a rapidly changing world and they point toward the formulation of concrete political platforms for informed social responses to the innovation process

Organization and Members National Research Council (U.S.),National Research Council (U.S.),1983 At head of title 1965 66 National Academy of Sciences National Academy of Engineering National Research Council 1972 73 1980 81 National Academy of Sciences National Academy of Engineering Institute of Medicine National Research Council *East Asia, the West and International Security* Robert O'Neill,1987-06-18 *Government Reports Announcements & Index* ,1988

Prohibiting Military Weather Modification United States. Congress. Senate. Committee on Foreign Relations.

Subcommittee on Oceans and International Environment,1972 **Routledge Revivals: The World Electronics Industry (1990)** Daniel Todd,2018-02-05 First published in 1990 this book provides an overview of the global distribution of the electronics industry and the structural factors which promoted this distribution by the end of the 1980s Regarded as a flagship sector in both advanced and developing countries the electronics industry is encouraged by governments everywhere Covering both the civilian and the military sides of the industry Professor Todd reflects on the future of civilian electronics in the light of its global segmentation and hints at the fundamental role of governments in the unfolding of both civilian and defence electronics developments He also endorses the overwhelming significance of strategies being played by electronics enterprises in both the USA and Japan Annual Report of the Council on Foreign Relations Council on Foreign Relations,1989 Includes list of members and by laws

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