

Do Environmental Imperatives Present Novel Problems And Opportunities For The International Transfer Of Technology Science And Technology Issues

[#environmental technology](#) [#tech transfer](#) [#sustainability challenges](#) [#international collaboration](#) [#green innovation](#)

Exploring how environmental imperatives introduce both novel problems and significant opportunities for the international transfer of science and technology. This involves addressing challenges in cross-border implementation while simultaneously fostering global innovation to achieve sustainable development goals.

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Do Environmental Imperatives Present Novel Problems and Opportunities for the International Transfer of Technology?

This IPCC Special Report provides a state-of-the-art overview of how to achieve and enhance technology transfer to respond to global climate change.

Methodological and Technological Issues in Technology Transfer

This book asks whether foreign aid can help post-communist societies to steer their technological innovation systems in more environmentally sound directions. Mikael Sandberg examines the legacy of Soviet-type innovation systems, then looks at opportunities for greener innovations in post-communist Poland, considering: institutional transformation

Green Post-Communism?

Joint ventures between businesses has become an important mechanism to enable companies to access markets and technology around the world. The private sector has increasingly used these co-operative arrangements or partnerships in high-technology and medium-technology industries; and when research and development (RandD) is a focus of the partnership, universities and other research institutes may also be involved. This paper considers the relatively slow expansion of formal partnering to the majority of firms in developing countries and argues the need for government strategies and policy intervention. It explores informal partnering through networks as an alternative way for firms in developing countries to acquire competitiveness in this area.

Environmental Issues

With the expansion of knowledge-based industries, such as computer software and services, the issue of intellectual property rights (IPRs) is growing in importance. This paper explores this issue in relation to developing countries, with a view to expanding their economic opportunities in this sector. It demonstrates the growing importance of computer software by examining recent global trends in copyright-based industries, especially the associated growing demand for all information-based industries since the mid-1980s and the potential for developing countries to enter global markets.

Partnerships and Networking in Science and Technology for Development

Agile Energy Systems: Global Distributed On-Site and Central Grid Power, Second Edition, offers new solutions to the structure of electricity provision made possible by new energy technologies. The book begins by showing how five precipitating forces led to the deregulation debacle in California, including major technological changes and commercialization, regulatory needs mismatched to societal adjustments, inadequate and flawed economic models, a lack of vision, goals, and planning that lead to energy failures, and questionable finance and lack of economic development. The second half of the book examines the civic market paradigm for new economic models and how to plan for complexity using California as an example of how the problem of centralized power systems can be seen in the worst drought that California has ever seen. Offers new approaches to energy systems, providing the tools and plans to achieve these objectives Presents specific and actionable public policy and program tools Illustrates how lessons learned from California can be used to create an agile energy system for any country

Pollution-ridden Asian Megacities and the Role of Environmental Technology in Pursuing Sustainable Development

Empowering decision makers by setting the vision for a new approach to energy systems and providing the tools and plans to achieve these objectives Provides specific and actionable public policy and programme tools Help solve energy issues worldwide by illustrating how the lessons learned from the California energy crisis can be used to create an agile energy system for any region in a country Due to the recent catastrophic energy system failures in California along with those in the North-Eastern US and Southern Canada, London, and Italy, the time has come to proclaim the failure of deregulation, privatization or liberalization and propose a new energy system. *Agile Energy Systems* shows in the first section, how five precipitating forces led to the deregulation debacle in California: (1) major technological changes and commercialization, (2) regulatory needs mismatched to societal adjustments, (3) inadequate and flawed economic models, (4) lack of vision, goals, and planning leading to energy failures, and (5) failure and lack of economic regional development. The second half of the book examines how "civic market"

Changing Dynamics of Global Computer Software and Services Industry

Governments the world over fret continuously about the low level of transfer of technology, especially within their own countries. The general problem is military to industry although the variations are numerous. Problems of presentation, offering and support complicate an already byzantine world. Yet somewhere within this dilemma lie the seeds of tomorrow's economic uptick. Besides the nontrivial problems involved here, the reluctance of the people having the technology to share it with someone who can profit from it, stands out. This book presents the issues and offers a comprehensive bibliography for easy access.

Agile Energy Systems

This book is a comprehensive study of differential treatment for developing countries in international environmental law. It offers a compelling analysis of the legal dimension of the relationship between developed and developing countries in the environmental field and beyond. It first critically examines the principle of legal equality of states and then explores the conceptual framework behind the notion of differential treatment in international law and its relevance in bringing about substantive equality. The book examines the development of differentiation in international environmental law, considers its application in various environmental treaties and evaluates the legal status of existing differential norms. It also examines the contribution of differentiation to the implementation of environmental treaties and the extent to which differential treatment fosters the decentralization of international environmental policy making. It is an indispensable resource for all actors involved in environmental law and policy making, scholars and students.

Agile Energy Systems

Focuses on international needs for science advice in the field of environment. The report offers several proposals. The audience for this report includes government officials in the U.S. and abroad.

Coalition of Resources for Information and Communication Technologies

Aufgrund zunehmender globaler Umweltprobleme und dem legitimen Bemühen zahlreicher Staaten um eine «aufholende Entwicklung» ist die Weitergabe umweltverträglicher Technologien an Entwicklungsländer zu einem Kernanliegen einer nachhaltigen Entwicklung geworden. Ausgehend von früheren Diskussionen über den Technologietransfer untersucht diese Arbeit jüngste Entwicklungen im Bereich des Umweltvölkerrechts, wobei insbesondere die Übereinkommen zum Schutz der Ozonschicht und jene zum Klimaschutz analysiert und Ansätze zur Umsetzung der jeweiligen Technologietransferbestimmungen in der Staatenpraxis aufgezeigt werden. Wurden im Bereich des internationalen Umweltrechts sektoral die Ziele einer «Neuen Weltwirtschaftsordnung» verwirklicht? Inwieweit stehen die verbindlichen Transferpflichten in einem Spannungsverhältnis zum völkerrechtlichen Schutz geistigen Eigentums? Der Autor prüft insoweit Möglichkeiten und Grenzen des Technologietransfers auf der Basis marktkonformer Mechanismen und beleuchtet die Rolle multilateraler Finanzierungsfonds.

Bibliographic Guide to Government Publications 2000

Indexes material from conference proceedings and hard-to-find documents, in addition to journal articles. Over 1,000 journals are indexed and literature published from 1981 to the present is covered. Topics in pollution and its management are extensively covered from the standpoints of atmosphere, emissions, mathematical models, effects on people and animals, and environmental action. Major areas of coverage include: air pollution, marine pollution, freshwater pollution, sewage and wastewater treatment, waste management, land pollution, toxicology and health, noise, and radiation.

Guide to UNCTAD Publications

Low carbon technology transfer to developing countries has been both a lynchpin of, and a key stumbling block to a global deal on climate change. This book brings together for the first time in one place the work of some of the world's leading contemporary researchers in this field. It provides a practical, empirically grounded guide for policy makers and practitioners, while at the same time making new theoretical advances in combining insights from the literature on technology transfer and the literature on low carbon innovation. The book begins by summarizing the nature of low carbon technology transfer and its contemporary relevance in the context of climate change, before introducing a new theoretical framework through which effective policy mechanisms can be analyzed. The north-south, developed-developing country differences and synergies are then introduced together with the relevant international policy context. Uniquely, the book also introduces questions around the extent to which current approaches to technology transfer under the international policy regime might be considered to be 'pro-poor'. Throughout, the book draws on cutting edge empirical work to illustrate the insights it affords. The book concludes by setting out constructive ways forward towards delivering on existing international commitments in this area, including practical tools for decision makers.

Monthly Bulletin

Where should the United States focus its long-term efforts to improve the nation's environment? What are the nation's most important environmental issues? What role should science and technology play in addressing these issues? Linking Science and Technology to Society's Environmental Goals provides the current thinking and answers to these questions. Based on input from a range of experts and interested individuals, including representatives of industry, government, academia, environmental organizations, and Native American communities, this book urges policymakers to: Use social science and risk assessment to guide decision-making. Monitor environmental changes in a more thorough, consistent, and coordinated manner. Reduce the adverse impact of chemicals on the environment. Move away from the use of fossil fuels. Adopt an environmental approach to engineering that reduces the use of natural resources. Substantially increase our understanding of the relationship between population and consumption. This book will be of special interest to policymakers in government and industry; environmental scientists, engineers, and advocates; and faculty, students, and researchers.

United Nations Publications

The Yearbook of International Organizations provides the most extensive coverage of non-profit international organizations currently available. Detailed profiles of international non-governmental and intergovernmental organizations (IGO), collected and documented by the Union of International Associations, can be found here. In addition to the history, aims and activities of international organizations, with their events, publications and contact details, the volumes of the Yearbook include networks between associations, biographies of key people involved and extensive statistical data. Providing both an international organizations and research bibliography, Volume 4 cites over 46,000 publications and information resources supplied by international organizations, and provides nearly 18,000 research citations under 40 subject headings. This volume also includes a research bibliography on international organizations and transnational associations.

UNCTAD Bulletin

This book is the first edited compilation of selected, refereed papers submitted to ERTEP 2007. The selected papers either dealt with technologies or scientific work and policy findings that address specific environmental problems affecting humanity in general, but more specifically, people and ecosystems in developing countries. It was not necessary for the work to have been done in a developing country, but the findings and results must be appropriate or applicable to a developing country setting. It is acknowledged that environmental research, technology applications and policy implementation have been demonstrated to improve environmental sustainability and protection in several developed economies. The main argument of the book is that similar gains can be achieved in developing economies and economies in transition. The book is organized into six chapters along some of the key themes discussed at the conference: Environmental Health Management, Sustainable Energy and Fuel, Water Treatment, Purification and Protection, Mining and Environment, Soil Stabilization, and Environmental Monitoring. It is hoped that the contents of the book will provide an insight into some of the environmental and health management challenges confronting the developing world and the steps being taken to address them.

Global Technology Transfer

This book presents new concepts as well as practical applications and experiences in the field of information technology for environmental engineering. The book has three main focus areas: firstly, it shows how information technologies can be employed to support natural resource management and conservation, environmental engineering, scientific simulation and integrated assessment studies. Secondly, it demonstrates the application of computing in the everyday practices of environmental engineers, natural scientists, economists and social scientists. And thirdly, it demonstrates how the complexity of natural phenomena can be approached using interdisciplinary methods, where computer science offers the infrastructure needed for environmental data collection and management, scientific simulations, decision support documentation and reporting. The book collects selected papers presented at the 7th International Symposium on Environmental Engineering, held in Port Elizabeth, South Africa in July 2015. It discusses recent success stories in eco-informatics, promising ideas and new challenges from the interdisciplinary viewpoints of computer scientists, environmental engineers, economists and social scientists, demonstrating new paradigms for problem-solving and decision-making.

Go Between

What role should governments play in protecting the environment and controlling the environmental impacts of industry? Do regulations benefit the environment? And how do they affect industrial innovation? Since the early 1970s, regulations have been used to coerce producers of goods and services into internalizing the environmental costs of production. These efforts have often faced opposition on practical and ideological grounds. Beginning in the 1980s, there has been a movement toward liberalization, coupled with the continued failure of the market to protect the environment as a public good. As a result, private and public sector interests have been debating the appropriate role of governments in protecting and improving the environment and controlling the environmental impact of industry. Using case studies from numerous countries, this book examines political and industrial trends and the responses to these challenges. The authors conclude that the complexities of environmental and economic relationships disallow universal solutions, and they stress the need for context-specific perspectives on the role of regulatory measures in environmental innovation.

Aanwinsten van de Centrale Bibliotheek (Queteletfonds)

The crucial interdependence between humans and their environment is explored and illuminated in this revealing overview of the major environmental issues facing society in the twenty-first century. This volume presents a novel picture of some of the current advances in the research of theoretical and practical frameworks of environmental problems and solutions taken from the latest empirical findings. This new volume focuses on the aspects of new techniques that are particularly valuable for solving environmental problems. The complex environmental issues are presented in simple terms to help readers grasp the basics and solve relevant problems. Timely and comprehensive discussions of applications to real-world environmental concerns are a central focus of this research-oriented volume.

Differential Treatment in International Environmental Law

This book, originally published in 1995, examines the evolution of environmental policy in 6 OECD countries. Through numerous examples, it contrasts the widely-varying political and regulatory styles and their consequences for innovation. Two industry-specific case studies provide a transnational perspective on the co-evolution of technology and environmental policy. The book concludes that innovation can be successfully harnessed by setting credible, long-term environmental goals and ensuring that regulatory instruments are grounded in flexibility, dialogue and trust.

International Environmental Research and Assessment

The Bulletin of the Atomic Scientists is the premier public resource on scientific and technological developments that impact global security. Founded by Manhattan Project Scientists, the Bulletin's iconic "Doomsday Clock" stimulates solutions for a safer world.

Technologietransfer zum internationalen Umweltschutz

OPEC Bulletin