

MACRO- ENGINEERING

*MIT Research Directions
on Global Infrastructure*



Edited by

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Cambridge, Massachusetts

Macro Engineering Global Infrastructure Solutions

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Macro Engineering Global Infrastructure Solutions:

Macro-Engineering Frank Paul Davidson, C. Lawrence Meador, 1992 This volume contains a series of lectures delivered over a 10 year period on the theory and practice of macro engineering It examines closed system habitats power transmission satellites the use of artificial islands and the possibility of the colonization of the Moon **Macro-Engineering**

V. Badescu, R.B. Cathcart, R.D. Schuiling, 2007-05-27 Macro engineering involves the large scale modification and manipulation of natural systems for the benefit of mankind The primary goals of some Earth based macroprojects described in this book are power production land reclamation food production climate change environment water transport and coastal protection Other Earth or space projects considered here have a more futuristic ring but our present day technical skill makes their realization possible Earth based macroprojects usually combine different aspects and aims They have a major impact on the ecology of a region and the inhabitants means of living like tourism fishing shipping Its effects may be felt worldwide like the rise in global sea level after the damming and evaporation of large ocean gulfs for power production or the change in climate following the regional reduction of solar insolation Macro-Engineering and the Earth U W

Kitzinger, E G Frankel, 1998-11-01 This work delivers ideas comments and projects on energy communications transport management human resources and financial and legal issues which macroengineering can contribute towards the solution of the Earth's environmental problems Some 20 engineers and scholars identify problems in the next century whose solutions call for international policy planning and a more collaborative peaceful and prosperous world order Imaginative concepts employ forward thinking for applying technology in revolutionary projects The book presents results of research on a triple helical turbine capable of extracting vast amounts of energy from slow moving water an invention which could harness rivers and ocean currents rendering high dams with their political social and ecological implications redundant These turbines are already in mass production in the USA for use in the Gulf Stream to produce energy and hydrogen fuel and can also be used to harness power from the wind Another project for which the technology is already available will harvest solar energy by satellites stationed beyond our atmosphere and beam it to the Earth and yet another calls for planetary defence of Earth against asteroid collisions The environmental section discusses large projects for changing our climate planning and costing for a sub Mediterranean aqueduct connecting the River Rhone in France with Algeria and plans for intensive fish farming of the oceans The role of satellites includes telemedicine and there are Swiss plans for further tunnelling through the Alps Project management sections include the formation of a military civilian conservation corps financial and legal issues macro projects in China and a forecast of 21st century macro problems Delivers ideas comments and projects on energy communications transport management human resources and financial and legal issues which macroengineering can contribute to the solution of the Earth's environmental problems Identifies problems in the next century whose solutions call for international policy planning and a more collaborative peaceful and prosperous world order Presents research on a triple

helical turbine capable of extracting vast amounts of energy from slow moving water **Macro-Engineering** F P Davidson,E G Frankl,C L Meador,1997-06-01 This volume makes available a reflection on large scale engineering for building a better world International authorities from engineering oceanography academia public service and law describe how great and imaginative concepts may be refined tested adapted financed implemented and put to use Here are records and commentaries about some of the world s significant engineering achievements including the planning and design of Nigeria s new capital city and the use of software by the US military to clean up the Exxon Valdez oil spill pollution in Alaska Describes a method of large scale engineering for building a better world Provides records and commentaries about significant engineering achievements International authorities from engineering oceanography academia public service and law describe how great and imaginative concepts may be refined tested adapted financed and implemented **The United Nations Development Programme** Craig N. Murphy,2006-09-14 The United Nations Development Programme is the central network co ordinating the work of the United Nations in over 160 developing countries This 2006 book provides the first authoritative and accessible history of the Programme and its predecessors Based on the findings of hundreds of interviews and archives in more than two dozen countries Craig Murphy traces the history of the UNDP s organizational structure and mission its relationship to the multilateral financial institutions and the development of its doctrines He argues that the principles on which the UNDP was founded remain as relevant in a world divided by terrorism as they were in the immediate aftermath of the Second World War as are the fundamental problems that have plagued the Programme from its origin including the opposition of traditionally isolationist forces in the industrialized world **Space Enterprise** Phillip Harris,2009-12-29 In Space Enterprise Living and Working Offworld Dr Philip Harris provides the vision and rationale as to why humanity is leaving its cradle Earth to use space resources as well as pursuing lunar industrialization and establishing offworld settlements As a management space psychologist Dr Harris presents a behavioral science perspective on space exploration and enterprise In this his 45th book Phil has completely revised and updated the two previous editions of this classic placing new emphasis on the need for more synergy and participation by the private sector He not only provides a critical review of what is happening in the global space community but offers specific strategies for lunar economic development The author analyzes the human factors in contemporary and future space developments especially relative to the deployment of people aloft This user friendly volume offers numerous photographs diagrams exhibits and case studies

Invention by Design Henry Petroski,1998-09-01 This book offers an insider s look at the political and cultural dimensions of design development and production and reaffirms Petroski as the master explicator of the principles and processes that turn thoughts into the many things that define our material world **Technology Transfer** Goel Cohen,Gü'ıl Kuhan,2004-02-20 This book identifies the major factors responsible for effective transfer of information and human expertise from an advanced country or a multinational corporation to the developing world **The Futurist** ,1995

Multicultural Management Farid Elashmawi, Philip Robert Harris, 1993 *Rock Engineering Systems* John A. Hudson, 1992 This book provides a new and much needed systems approach to all rock engineering problems The methodology has application to any structures built on or in rock and hence will be of major interest to everyone involved in the subject engineers researchers students and teachers the author explains from first principles how this new and original methodology is developed The subjects encompass a unique atlas of rock engineering mechanisms a method of establishing the importance of each parameter and mechanism in any rock engineering project the energy and entropy contexts how to implement the approach in engineering practice and all the benefits accruing from systems thinking with examples ranging from assessing candidate schemes to systems auditing of rock engineering projects **Space Governance** ,1994 *Mixing the Waters* Jeffrey K. Stine, 1993 The largest most costly domestic public works project ever undertaken by the Army Corps of Engineers the Tenn Tom s 234 miles five dams and ten locks entailed the movement of more earth than was required to dig the Panama Canal In a monumental history of the nation s largest navigation project Jeffrey K Stine records the struggle between the interests determined to build the waterway and the forces pitted against its completion Based on extensive research *Mixing the Waters* explores the intersection of environmental history the history of technology and U S political history It chronicles the profound changes introduced by the environmental movement and addresses the importance of changing societal values an issue at the heart of understanding the evolving relationship between technology and the environment **The Moon** David Schunk, Burton Sharpe, Bonnie L. Cooper, Madhu Thangavelu, 2007-11-27 This extraordinary book details how the Moon could be used as a springboard for Solar System exploration It presents a realistic plan for placing and servicing telescopes on the Moon and highlights the use of the Moon as a base for an early warning system from which to combat threats of near Earth objects A realistic vision of human development and settlement of the Moon over the next one hundred years is presented and the author explains how global living standards for the Earth can be enhanced through the use of lunar based generated solar power From that beginning the people of the Earth would evolve into a spacefaring civilisation Plunkett's Engineering & Research Industry Almanac 2008 Jack W. Plunkett, 2008-05 A guide to the trends and leading companies in the engineering research design innovation and development business fields those firms that are dominant in engineering based design and development as well leaders in technology based research and development Aslib Book Guide ,1993 Who's Who in American Law Marquis Who's Who, Inc, 2001 **Inovação** Henry Petroski, 2008-01-01 Este livro apresenta nove estudos de caso que mostram como uma boa id ia pode transformar se em um produto lucrativo uma obra monumental ou um servi o til sociedade Essa transforma o muitas vezes dif cil demorada e frustrante indicando que o sucesso n o depende apenas do m rito cient fico ou qualidade t cnica das inven es mas sobretudo do trabalho persistente das pessoas envolvidas e do contexto tecnol gico econ mico pol tico e social Entre os principais aspectos abordados no livro destacam se id ias geniais como clipe z per e velcro s se transformaram em neg cios lucrativos

com o desenvolvimento dos materiais e máquinas para a sua produção econômica em larga escala o desenvolvimento da aeronave Boeing 777 se tornou possível com a evolução dos recursos de informática tanto para o projeto sem papel quanto da informática embarcada os aparelhos de fax difundiram-se em todo o mundo devido à padronização adotada e ao esforço tecnológico para reduzir os custos além da criação de uma extensa rede de comunicações o sucesso ou fracasso do projetista depende também de sua capacidade de antecipar eventuais falhas dos produtos como se constata nos projetos da primeira aeronave a jato e das latas de alumínio nem sempre se consegue implementar os projetos de melhor qualidade técnica devido às inúmeras interferências políticas e interesses econômicos envolvidos principalmente no caso de grandes obras como pontes e arranha-céus

The Management of Projects Peter W. G. Morris, 1994 This book will undoubtedly become one of the classics of the project management literature There will be a growing need for project managers who can look beyond the internal processes of their projects to the organisational technological and socio economic contexts in which projects must be managed A good starting point would be for all project managers to read this book Construction Management and Economics

Who's who in Finance and Industry, 2001

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