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New Book Alerts

What's New at the Library

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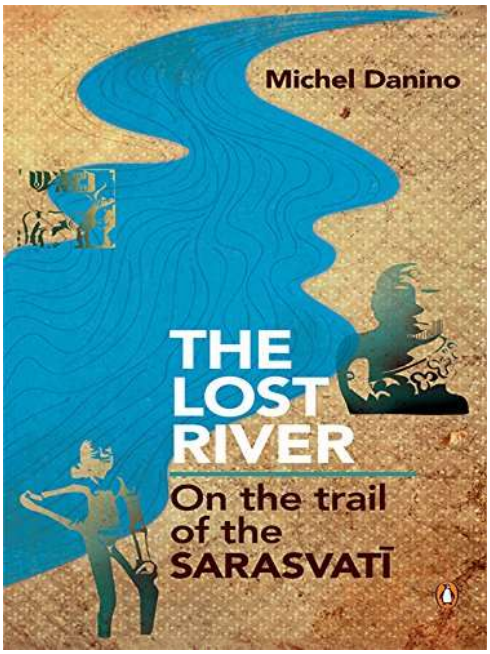
NITI AAYOG
LIBRARY

NEW BOOKS ADDED IN THE LIBRARY

1. **The Lost River: On The Trails of Saraswati / Michel Danino**

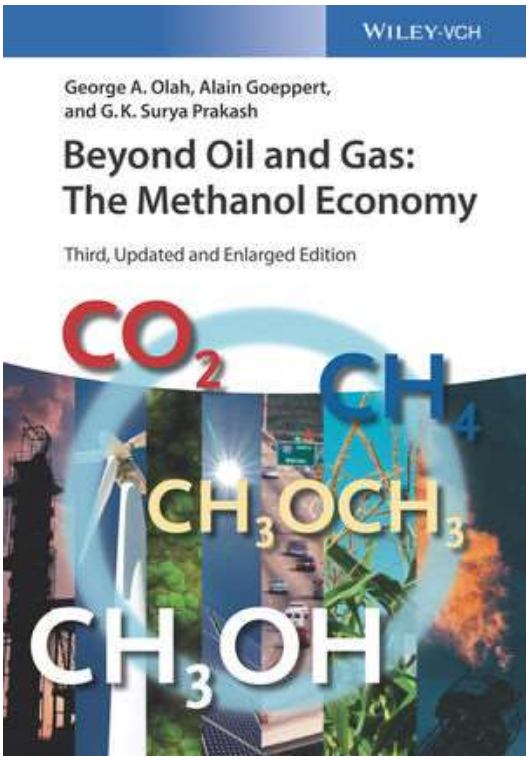


The Indian subcontinent was the scene of dramatic upheavals a few thousand years ago. The Northwest region entered an arid phase, and erosion coupled with tectonic events played havoc with river courses. One of them disappeared. Celebrated as -Sarasvati' in the Rig Veda and the Mahabharata, this river was rediscovered in the early nineteenth century through topographic explorations by British officials. Recently, geological and climatological studies have probed its evolution and disappearance, while satellite imagery has traced the river's buried courses and isotope analyses have dated ancient waters still stored under the Thar Desert. In the same Northwest, the subcontinent's first urban society"the Indus civilization"flourished and declined. But it was not watered by the Indus alone: since Aurel Stein's expedition in the 1940s, hundreds of Harappan sites have been identified in the now dry Sarasvati's basin. The rich Harappan legacy in technologies, arts and culture sowed the seeds of Indian civilization as we know it now. Drawing from recent research in a wide range of disciplines, this book discusses differing viewpoints and proposes a harmonious synthesis"a fascinating tale of exploration that brings to life the vital role the -lost river of the Indian desert' played before its waters gurgled to a stop.

Publisher: Penguin Random House

Call No: 551.4830954 D186L **Accession Number:156002**

2. **Beyond Oil and Gas: The Methanol Economy/ George A. Olah, Alain Goeppert, G. K. Surya Prakash**

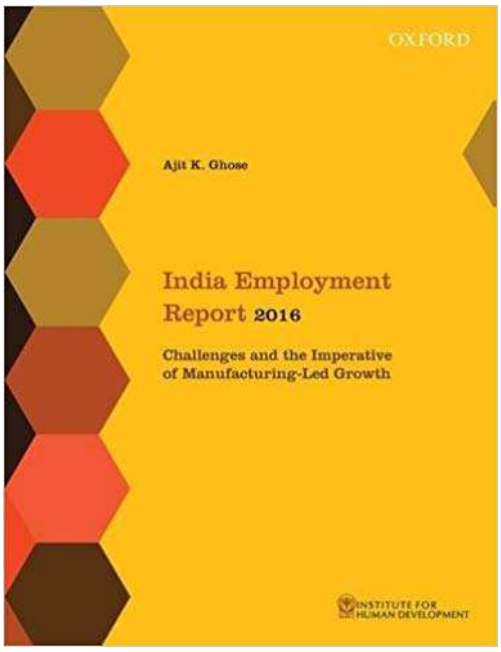


Completely revised and updated, the third edition of this bestseller discusses the concept and ongoing development of using methanol and derived dimethyl ether as a transportation fuel, energy storage medium, and as a chemical raw material to replace fossil fuels. The contents have been expanded by 35% with new and up to date coverage on energy storage, methanol from biomass and waste products, as well as on carbon dioxide capture and recycling. Written by the late Nobel laureate George Olah, Alain Goeppert and G. K. Surya Prakash, this is an inspiring read for anyone concerned with the major challenge posed by environmental problems including global warming and ocean acidification due to massive increase in fossil fuel use. The book provides a comprehensive and sustainable solution to replace fossil fuels in the long run by chemical recycling of carbon dioxide through renewable methanol utilizing alternative energy sources such as solar, wind, hydro, geothermal and nuclear. The Methanol Economy is being progressively implemented in many parts of the world.

Publisher: Wiley- VCH

Call No: 333.82311 O42B **Accession Number: 156003**

3. **India Employment Report 2016: Challenges and the Imperative of Manufacturing - Led Growth/ Ajit K. Ghose**



What is the nature of the employment problem that India faces? What kind of economic growth is required to address it? As India posits itself as one of the fastest growing major economies in the world, India Employment Report 2016 examines how the employment challenge undermines the substantial improvement that the economy has made in the last decade and a half. This report provides an in-depth review of the evolving characteristics of the country's labour force, develops new tools for a sharper analysis of the changes in employment conditions and gives a clearer view of the state of employment in India. Presenting a comprehensive overview of the policy interventions that would be required for the development of India's growth strategy, the report brings out that pursuing a manufacturing-led growth strategy can help the country overcome this formidable challenge. This report has been prepared by the Institute for Human Development (IHD), New Delhi, under the institute's programme on labour markets and employment studies. This is the second report in the series of analytical reports being published biennially by the institute.

Publisher: Oxford University Press

Call No: 331.1095406 G427I **Accession Number: 156004**

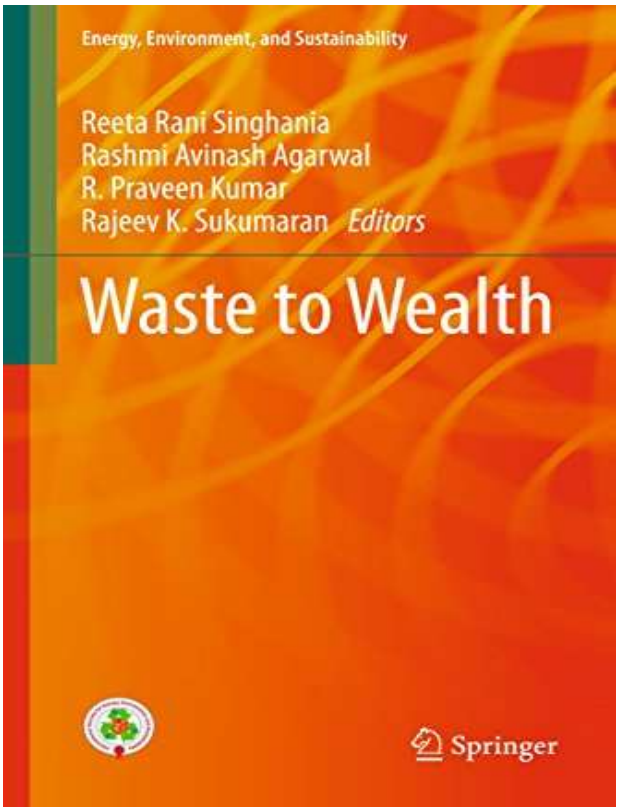
4. **Waste Bioremediation/ Sunita J. Varjani, Edgard Gnansounou, G. Bhaskar, Deepak Pant , Zainul Akmar Zakaria**

This book discusses the bioremediation of both solid and liquid waste, including regional solutions for India as well as globally relevant applications. The topics covered include pollutant reduction through composting, solutions for petroleum refinery waste, use of microorganisms in the bioremediation of industrial waste and toxicity reduction, microbial fuel cells, and microbial depolymerisation. The book also explores the bio sorption of metals and the bioremediation of leachates, especially with regard to soil and groundwater remediation. It is a valuable resource for researchers, professionals, and policy makers alike.

Publisher: Springer

Call No: 363.728 V313W **Accession Number: C-19657**

5. **Waste to Wealth (Energy, Environment, and Sustainability)/ Reeta Rani Singhania, Rashmi Avinash Agarwal, R. Praveen Kumar, Rajeev K Sukumaran**

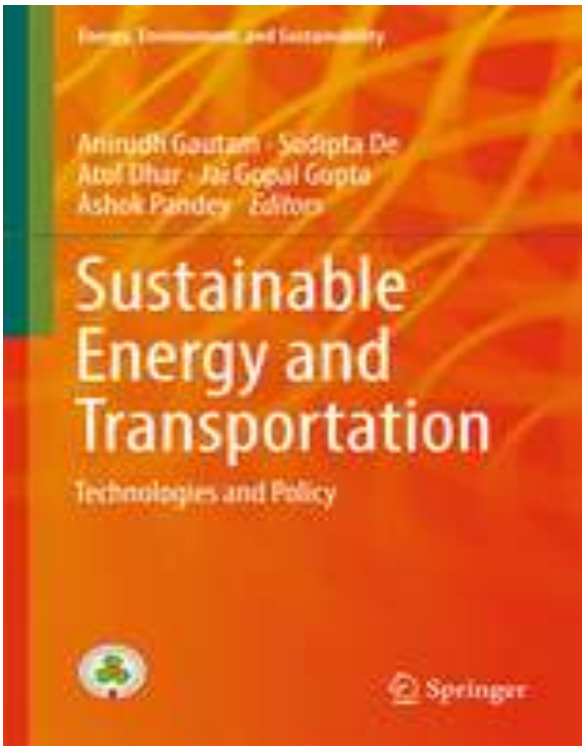


This book focuses on value addition to various waste streams, which include industrial waste, agricultural waste, and municipal solid and liquid waste. It addresses the utilization of waste to generate valuable products such as electricity, fuel, fertilizers, and chemicals, while placing special emphasis on environmental concerns and presenting a multidisciplinary approach for handling waste. Including chapters authored by prominent national and international experts, the book will be of interest to researchers, professionals and policymakers alike

Publisher: Springer

Call No: 662.87 S617W **Accession Number: C-19663**

6. **Sustainable Energy and Transportation/ Anirudh Gautam, Sudipta De, Atul Dhar, Jai Gopal Gupta, Ashok Pandey**

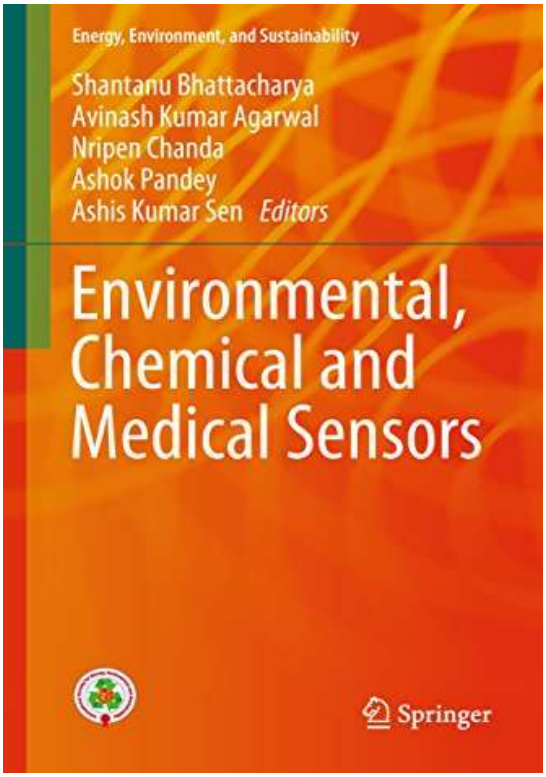


This book presents an integrated approach to sustainably fulfilling energy requirements, considering various energy-usage sectors and applicable technologies in those sectors. It discusses smart cities, focusing on the design of urban transport systems and sources of energy for mobility. It also shares thoughts on individual consumption for ensuring the sustainability of energy resources and technologies for emission reductions for both mobility and stationary applications. For the latter, it examines case studies related to energy consumption in the manufacturing sector as well as domestic energy requirements. In addition it explores various distribution and policy aspects related to the power sector and sources of energy such as coal and biomass. This book will serve as a valuable resource for researchers, practitioners, and policymakers alike.

Publisher: Springer

Call No: 333.7968 G275S **Accession Number: C-19664**

7. **Environmental, Chemical and Medical Sensors (Energy, Environment, and Sustainability) /Shantanu Bhattacharya, Avinash Kumar Agarwal, Nripen Chanda,Ashok Pandey, Ashis Kumar Sen**

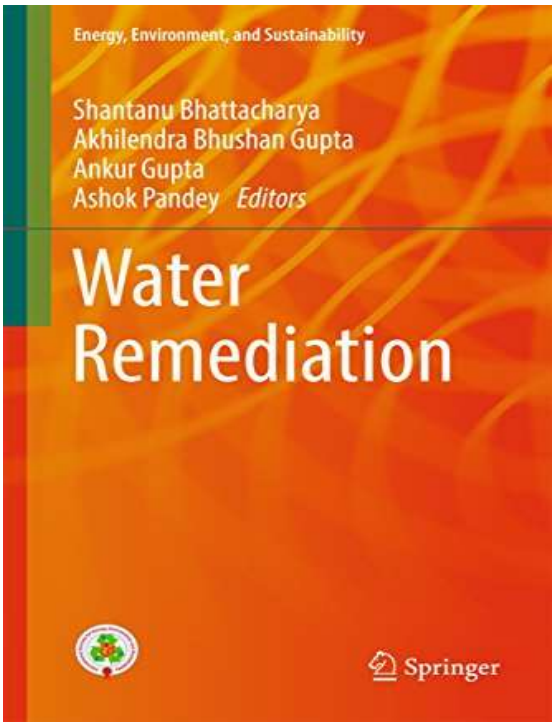


This book covers the fundamentals of sensor technologies as well as the recent research for the development of environmental, chemical and medical sensor technologies. Chapters include current research on microflow cytometry, microfluidic devices, colorimetric sensors, and the development of low-cost optical densitometric sensors and paper based analytical devices for environmental and biomedical applications. Special focus has been given to nanotechnology and nanostructures- their fabrication, uses and utility in different fields of research such as for the design of tools for medical diagnostics, therapeutics, as well as for detection and estimation of pollutant levels in water and air quality monitoring. This book is intended as a resource for researchers working in the field of sensor development across the world.

Publisher:Springer

Call No:662.60286 B575E **Accession Number:C-19665**

8. Water Remediation (Energy, Environment, and Sustainability)/ Shantanu Bhattacharya , Akhilendra Bhushan Gupta , Ankur Gupta ,Ashok Pandey

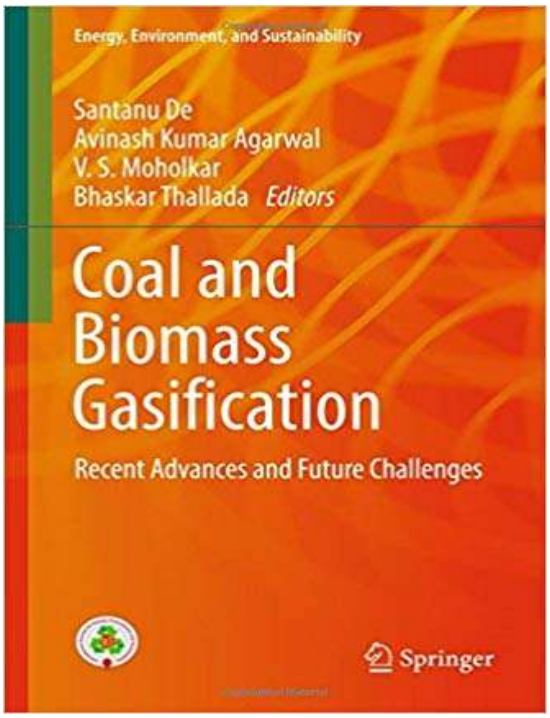


This book presents the state-of-the-art in the area of water remediation. It covers topics such as decentralized ecological wastewater treatment, applications of remote sensing and geographic information systems (GIS) in water quality monitoring and remediation, water remediation through nanotechnology, and processes used in water purification. The contents of this volume will prove useful to researchers, students, and policy makers alike.

Publisher: Springer

Call No: 628.162 B575W **Accession Number: C-19666**

9. **Coal and Biomass Gasification: Recent Advances and Future Challenges (Energy, Environment, and Sustainability)/Santanu De , Avinash Kumar Agarwal , V. S. Moholkar , Bhaskar Thallada**



This book addresses the science and technology of the gasification process and the production of electricity, synthetic fuels and other useful chemicals. Pursuing a holistic approach, it covers the fundamentals of gasification and its various applications. In addition to discussing recent advances and outlining future directions, it covers advanced topics such as underground coal gasification and chemical looping combustion, and describes the state-of-the-art experimental techniques, modeling and numerical simulations, environmentally friendly approaches, and technological challenges involved.

Publisher: Springer

Call No: 333.95 D278C **Accession Number: C-19668**