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Social Perspectives on the Sanitation Challenge



Springer

Social Perspectives On The Sanitation Challenge

Jessica J Manson



Social Perspectives On The Sanitation Challenge:

Social Perspectives on the Sanitation Challenge Bas van Vliet, Gert Spaargaren, Peter Oosterveer, 2010-03-10 This volume is the result of years of commitment with world wide sanitation challenges from various research networks linking the editors and authors of this volume to many other sanitation scholars and professionals Major contributions to this volume are derived from the work done in the PROVIDE project working on sustainable urban infrastructures in cities of the Lake Victoria Basin East Africa the DESAR project research and pilot projects in Decentralized Sanitation and Reuse the Netherlands and among others within NETSSAF large scale implementation of sanitation in Africa and EcoSan networks The major milestone for this book to emerge was however the IWA Sanitation Challenge Conference of May 2008 in Wageningen the Netherlands where all the authors of this book presented their papers The conference was organized by a consortium of sanitation specialists at Wageningen University's Environmental Policy Group the editors and the department of Environmental Technology LeAF Lettinga Associates Foundation and Wetsus Center of Excellence for Sustainable Water Technology in the Netherlands It was a unique event as it enabled a truly multi disciplinary approach in discussing Sanitation Challenges in North and South with social and political scientists natural scientists environmental engineers and practitioners in one scientific conference This volume presents a selection of the social scientific insights and research results presented at the Sanitation Challenge Conference the concepts decision making support tools and the perspectives from farmers and consumers towards sanitation innovation

Handbook of Research on Resource Management and the Struggle for Water Sustainability in Africa Nojiyeza, Innocent Simphiwe, Mtapuri, Oliver, Bazaanah, Prosper, Netshiozwi, Edzisani Ellen, 2022-01-28 Access to water and sanitation remains a critical challenge in various countries in Africa The crisis remains the crisis of governance rather than the physical and economic scarcity In most countries water is realized as a human right and subsidies are provided for the indigent households The tricky issue in rural areas remains an issue of access that is often linked to willingness and ability to pay for the installation and daily consumption The Handbook of Research on Resource Management and the Struggle for Water Sustainability in Africa presents practical examples of integrated water resources management IWRM implementation in African countries It further addresses the contemporary issues of alternative energy as part of climate change mitigation and utilizes case studies to examine how communities adapt to climate change Covering topics such as climate justice ecological governance and political ecology this major reference work is a dynamic resource for government officials sociologists climate scientists activists students and educators of higher education academicians and researchers in the fields of social sciences government developmental studies international relations and political science

The role of households in solid waste management in East Africa capital cities Aisa Oberlin Solomon, 2023-09-04 Household solid waste management is a severe problem in East Africa capital cities Domestic actors tend to be neglected in their role in solving the problem This book develops a new conceptual framework for analyzing the role of households in solid waste management in

East Africa's capital cities This conceptual framework is derived from the theory of the Modernized Mixture Approach By focusing on households in informal settlements in particular domestic routines for handling wastes are analyzed for their technical and social dimensions By elaborating upon the technical and social aspects of domestic solid wastes and the role of householders in producing and handling these wastes this book adds to the scanty body of scientific knowledge of sustainable waste management by householders in East African countries The knowledge generated with respect to technical and social dimensions can be used in the future by researchers and policy makers in SWM policies both in East Africa and comparable situations elsewhere in the world *Beyond the Networked City* Olivier Coutard, Jonathan Rutherford, 2015-12-14 Cities around the world are undergoing profound changes In this global era we live in a world of rising knowledge economies digital technologies and awareness of environmental issues The so called modern infrastructural ideal of spatially and socially ubiquitous centrally governed infrastructures providing exclusive homogeneous services over extensive areas has been the standard of reference for the provision of basic essential services such as water and energy supply This book argues that after decades of undisputed domination this ideal is being increasingly questioned and that the network ideology that supports it may be waning In order to begin exploring the highly diverse fluid and unstable landscapes emerging beyond the networked city this book identifies dynamics through which a break with previous configurations has been operated and new brittle zones of socio technical controversy through which urban infrastructure and its wider meaning are being negotiated and fought over It uncovers across a diverse set of urban contexts new ways in which processes of urbanization and infrastructure production are being combined with crucial sociopolitical implications through shifting political economies of infrastructure which rework resource distribution and value creation through new infrastructural spaces and territorialities which rebundle socio technical systems for particular interests and claims and through changing offsets between individual and collective appropriation experience and mobilization of infrastructure With contributions from leading authorities in the field and drawing on theoretical advances and original empirical material this book is a major contribution to an ongoing infrastructural turn in urban studies and will be of interest to all those concerned by the diverse forms and contested outcomes of contemporary urban change across North and South Toilet Adoption in Rural India Saswata Biswas, Indranil De, Gyan Mudra, Deepa Gupta, 2024-03-28 This book examines sanitation and toilet access across rural India focusing on psychological socio cultural infrastructural and normative barriers to the initiative of Swachh Bharat Mission SBM While sketching the evolution of sanitation policies in India it assesses their impact on sanitation behaviour It also studies the implications of variations in caste religion and geography on toilet usage across Indian states By analysing data from various states and intensive micro level studies of three states i e rural Bihar Gujarat and Telangana this volume Suggests that socio cultural factors are as significant as economic factors in shaping sanitation behaviour Argues that the concepts of cleanliness and pollution are often determined by the social cultural context rooted in historical events that have shaped traditional

beliefs and ideas about space Explores gendered perspectives on the usage of and access to toilets Highlights the limited effectiveness of Information Education and Communication IEC programs in encouraging toilet adoption and emphasizes the need for information dissemination at the ground level Gives recommendations for enhancing the adoption of toilets in rural India including provision for more than one toilet per household uninterrupted access to water and behavioural change to combat open defecation This book will be useful to students studying sociology psychology social work and development studies It will also be an invaluable companion to NGOs social workers and activists actively involved in water sanitation and hygiene Moreover this book holds immense value as a pivotal resource and point of reference for policymakers engaged in rural development with a specific focus on Sustainable Development Goals *Urban Development for the 21st Century* Kimberly Etingoff,2015-07-29 This title includes a number of Open Access chapters Urban planners around the world are increasingly concerned with creating and maintaining cities that are healthy for both the environment and for individuals Cities are at the forefront of the trend toward sustainable living since they are the site of concentrated population resource use and Pipe Dreams Chelsea Wald,2022-03-22 This book offers an informative and humorous deep dive into the future of the toilet from creative uses for harvested biosolids to the bold engineers dedicated to bringing safe sanitation to the billions of people worldwide living without it *Routledge Handbook on Consumption* Margit Keller,Bente Halkier,Terhi-Anna Wilska,Monica Truninger,2017-02-10 Consumption research is burgeoning across a wide range of disciplines The Routledge Handbook on Consumption gathers experts from around the world to provide a nuanced overview of the latest scholarship in this expanding field At once ambitious and timely the volume provides an ideal map for those looking to position their work find new analytic insights and identify research gaps With an intuitive thematic structure and resolutely international outlook it engages with theory and methodology markets and businesses policies politics and the state and culture and everyday life It will be essential reading for students and scholars across the social and economic sciences Handbook of Research on Urban Governance and Management in the Developing World Mugambwa, Joshua,Katusiimeh, Mesharch W.,2018-05-09 With the emphasis on market led development initiatives sustainable urbanization is a challenge especially in growing nations Regional administrative efforts are crucial for cities to meet the planned city operations and specific targets and objectives The Handbook of Research on Urban Governance and Management in the Developing World is a research publication that explores contemporary issues in regional political and administrative practices and key challenges in implementing these strategies in growing nations Featuring coverage on a wide range of topics such as urban and regional economics supply chain management and environmental concerns this book is geared toward city development planners policy makers researchers academics and students seeking current and relevant research on the regional bureaucracy and its practices and how they affect growing nations **Modernising solid waste management at municipal level** Christine Majale Liyala,2023-09-04 The performance of local authorities is vital for high quality flow of key public services such as solid waste

collection and treatment This publication discusses and analyses in depth the institutional arrangements for the management of domestic solid wastes in three urban centres bordering the lake Victoria Basin in East Africa Kisumu Jinja and Mwanza It presents research on the different public and private systems for municipal waste service delivery in this region It makes use of existing theories on network governance and on developmental state and multi level governance and applies the concept of modernised mixtures when studying centralised and decentralised configurations for handling urban solid waste It is shown that for solid waste management arrangements for service provision in the urban centres have evolved in direct response to locally specific conditions It is argued that modernised mixtures are important for improving the performance of local authorities in waste service provision since they offer flexible perspectives which build upon existing practices and state capacities in the particular East African contexts

Assessing sanitary mixtures in East African cities Sammy C.

Letema,2023-09-04 It has been common for both scientists and policy makers to view sanitary provision as a dichotomy between a centralised and a decentralised approach Moreover sustainability assessment has also been characterized by a dualistic approach between the techno centric and the eco centric Such views are often simplistic and not in tandem with the existing multiple sanitary options and service providers in East African cities which defy such classification This book provides the theoretical and empirical basis for a third way of classifying and assessing the multiple technical and institutional options to sanitary provision This novel assessment approach called modernised mixtures is used in this book as a tool for conceptualising assessing and improving sanitary provision in East African cities The assessment is based on four social and technical dimensions and three sustainability criteria This inclusive approach in assessing sanitary mixtures benefits decision making among imperfect options

Water for the Americas Alberto Garrido,Mordechai

Shechter,2014-08-07 The chapters in this volume are peer reviewed editions of the papers presented at the 7th meeting of the Rosenberg International Forum on Water Policy which was held in Buenos Aires Argentina on November 15 17 2010 The theme for Forum VII was Water for the Americas Challenges and Opportunities This Forum was unique in examining the water problems of the Americas and identifying water management experience gleaned in other parts of the world that might be useful in addressing the problems of the Americas The sessions illustrated how the water problems of the Americas are common problems differing only in degree from basin to basin There was unanimity among the participants about the need for all inhabitants of the Americas to work together to ensure that everyone has access to adequate quantities of healthy water supplies and to appropriate sanitation services This volume s approach is to identify different responses and policies that address common issues and learn from contrasts and experiences The value and potential that this approach affords is that it provides critical judgments about what has worked well and what needs to be done to gain a better future for the Americas water resources and society Some issues covered in the volume are so pressing and urgent chief among them is serving the unserved that any delays putting out new facilities in many a rural areas of Central America may cost lives and

reduce the outlook for children Additionally the volume makes clear that the outlook for the poorest and the future of hundreds of growing cities are threatened by climate change This book looks into the future by analyzing present and relevant data and gains insight from the different developmental stages of the hemisphere

Sustainable Urban Futures in Africa Michael Addaney, Patrick Cobbinah, 2021-12-30 Sustainable Urban Futures in Africa provides a variety of conventional and emerging theoretical frameworks to inform understandings and responses to critical urban development issues such as urbanisation climate change housing slum informality urban sprawl urban ecosystem services and urban poverty among others within the context of the sustainable development goals SDGs in Africa This book addresses topics including challenges to spatial urban development how spatial planning is delivered how different urbanisation variables influence the development of different forms of urban systems and settlements in Africa how city authorities could use old and new methods of land administration to produce sustainable urban spaces in Africa and the role of local activism is causing important changes in the built environment Chapters are written by a diverse range of African scholars and practitioners in urban planning and policy design environmental science and policy sociology agriculture natural resources management environmental law and politics Urban Africa has huge resource potential both human and natural resources that can stimulate sustainable development when effectively harnessed Sustainable Urban Futures in Africa provides support for the SDGs in urban Africa and will be of interest to students and researchers professionals and policymakers and readers of urban studies spatial planning geography governance and other social sciences

Retrofitting Cities Mike Hodson, Simon Marvin, 2015-12-14 Developing an up to date critical framework for analysing urban retrofit this is the first book to examine urban re engineering for sustainability in a socio technical context Retrofitting Cities examines why retrofit is emerging as an important strategic issue for urban authorities and untangles the mix of economic competitive ecological and social drivers that influence any transition towards a more sustainable urban environment Retrofitting Cities comparatively explores how urban scale retrofitting can be conceptualised as a socio technical transition to critically compare and contrast different national styles of response in cities of the north and global south and to develop new research and policy agendas on future development of progressive retrofitting Bringing together a group of researchers from a variety of disciplinary backgrounds that reflect the complexity of the research challenge Retrofitting cities looks across different infrastructures and types of built environment dealing with diverse urban contexts and examining formal as well as community responses This is a uniquely practical book for urban planning and policy professionals as well as for researchers in urban studies and urban design

Eco-Industrial Development as an Industrial Strategy Andreas Ch. Braun, Gabriela Espinosa Gutiérrez, Danny Tröger, Thomas Hirth, 2024-12-24 This book reports on the results of a 6 year international collaboration between four universities such as the Karlsruhe Institute of Technology Germany the Universidad de Chile the Universidad Austral de Chile and the Universidad de Concepcion Chile on the topic of Eco Industrial Development i e on how

industry can learn from ecosystems in order to increase its sustainability On the one hand this book presents the findings of the projects run by the network of researchers from Chile and Germany including chapters on renewable energy production circular economy sustainable agriculture and social and environmental impact assessment among others On the other hand it highlights the importance of international academic collaboration in order to achieve sustainable transformations in industry while also providing insights into the particular challenges and opportunities of eco industrial development in Chile All in all this book provides both academics and professionals with a timely snapshot on principles and best practices for industrial sustainability and sustainable development

Prefabricated Construction for Sustainability and Mass Customization

,2024-03-13 Building is a system of energy and environment which needs to accommodate diverse needs and demands at individual and societal levels Nearly 40% of global energy use derives from construction In fact a house consumes a significant amount of energy before and after occupancy and the associated CO2 emissions are contributing to climate change Prefabrication is a means to mass produce buildings or parts and components Thus in theory production costs can be reduced through economies of scale In the 1920s the significance of mass produced houses was widely propagated by Le Corbusier who saw standardization as fundamental to mass production Nonetheless today in response to growing global warming issues and the constant increase in energy prices the construction industry is becoming more responsive to the delivery of sustainable architecture than ever Within this context sustainability may embrace not only building economy but also the adequacy beyond the legitimacy in which the quality barely coincides with individuals various dynamic needs desires and expectations today In this respect mass produced prefabs alone fail to realize total sustainability In 1987 a paradoxical concept of mass customization was introduced by Stanley Davis Nonetheless the idea applied to housing dates back to the 1950s The essence of mass customizable architecture was speculated by Walter Gropius as he emphasized the need for standardizing and mass producing not only entire buildings but also their components The combination of standard building components which can be prefabricated results in mass producing various types of constructions through economies of scope where the quality can be defined by user choices of the components given in consideration of economic constraints and needs and demands This book is an initial attempt to integrate the two notions of sustainability and mass customization by reviewing the potential capacities of prefabricated construction

Governmental Response to Environmental

Challenges in Global Perspective Joseph G. Jabbar, O. P. Dwivedi, 1998 In our drive to improve human standards of living we have paradoxically paid scant attention to the need for clean air and water the impact of acid rain on agriculture lakes and rivers the effect of pollutants on the ozone layer the safe disposal of hazardous wastes and the relationship between population growth and the environment It seems that every time governments are faced with an apparent choice between economic development and the protection of the environment priority is always given to the former Short term plans dictated by canons of political survival and expediency always seem to take precedence over long term strategies with politicians and

decision makers deftly relegating environmental concerns to the realm of rhetoric This book is an effort to better understand the problems faced by our global ecosystems It is also the result of the authors deep commitment to urge both citizens and their leaders the world over to work together for a better protection of the environment so that our planet may be saved for the present and for future generations

Source Separation and Decentralization for Wastewater Management Tove A. Larsen, Kai M. Udert, Judit Lienert, 2013-02-01

Is sewer based wastewater treatment really the optimal technical solution in urban water management This paradigm is increasingly being questioned Growing water scarcity and the insight that water will be an important limiting factor for the quality of urban life are main drivers for new approaches in wastewater management *Source Separation and Decentralization for Wastewater Management* sets up a comprehensive view of the resources involved in urban water management It explores the potential of source separation and decentralization to provide viable alternatives to sewer based urban water management During the 1990s several research groups started working on source separating technologies for wastewater treatment Source separation was not new but had only been propagated as a cheap and environmentally friendly technology for the poor The novelty was the discussion whether source separation could be a sustainable alternative to existing end of pipe systems even in urban areas and industrialized countries Since then sustainable resource management and many different source separating technologies have been investigated The theoretical framework and also possible technologies have now developed to a more mature state At the same time many interesting technologies to process combined or concentrated wastewaters have evolved which are equally suited for the treatment of source separated domestic wastewater The book presents a comprehensive view of the state of the art of source separation and decentralization It discusses the technical possibilities and practical experience with source separation in different countries around the world The area is in rapid development but many of the fundamental insights presented in this book will stay valid *Source Separation and Decentralization for Wastewater Management* is intended for all professionals and researchers interested in wastewater management whether or not they are familiar with source separation

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Sustainable Solid Waste Management Ni-Bin Chang, Ana Pires, 2015-02-18 This book presents the application of system analysis techniques with case studies to help readers learn how the techniques can be applied how the problems are solved and which sustainable management strategies can be reached

Safe Use of Wastewater in Agriculture Hiroshan Hettiarachchi, Reza Ardakanian, 2018-03-09 This book offers a broad and global level description of the current status of wastewater use in agriculture and then brings the readers to various places in the MENA Region and Europe to explain how some countries and regions have addressed the challenges during implementation On a global scale over 20 million hectares of agricultural land are irrigated using wastewater This is one good and perhaps the most prominent example of the safe use potential of wastewater Water scarcity and the cost of energy and fertilisers are among the main factors driving millions of farmers and other entrepreneurs to make use of wastewater In order to address the technical institutional and policy challenges of safe water reuse developing countries and countries in transition need clear institutional arrangements and more skilled human resources with a sound understanding of the opportunities and potential risks of wastewater use Stakeholders in wastewater irrigation who need to implement from scratch or improve current conditions find it difficult to gather the necessary information on practical implementation aspects The main objective of this book is to bridge that gap

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