

<<快速城镇化进程中的城市可持续交通>>

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前言

The book Sustainable Urban Mobility in Rapid Urbanization : Theory and Practice in China , was the result of great collaborative efforts of the project group. China is currently in a rapid development phase , in which the trends of expanding industrialization and urbanization , increasing motorization and growing modernization are likely to persist. In particular , both the number and the scale of cities are increasing , driven by economic growth , and urban populations are more concentrated. In this process , transport problems become big issues and gradually draw more of the public ' S attention. These current trends in urbanization present urgent needs to deflect or prevent the occurrence of a wide variety of urban transport problems. During the time people focus on human sustainability , more attention was directed to sustainable transport , in particular urban transport sustainability. To that end , it is anticipated that the fundamental obstacles to sustainable transport development are urban transport problems during the rapid urbanization and modernization process. On the basis of these needs and challenges , Sustainable Urban Mobility in Rapid Urbanization : Theory and Practice in China provides scientific insight and systemic analysis of sustainable urban transport , and also reflects the fundamental issues that China will likely confront in the near future. Therefore , this book has profound scientific value and also has practical significance to guide the implementation of sustainable development in China. The practical problems of sustainable development and transport have existed throughout human history. These problems have emerged full-blown to our generation without unprecedented urbanization , industrialization and mobilization. We shall not shy away from these problems , but will face them directly and resolve them through our accumulated wisdom , making our contribution to humankind by making our living environments sustainable for the generations to come. The prerequisite for addressing issues of sustainable development is to establish the right value system and to develop well-defined goals based on it. We then address the interactions between the defined value system and development goals , and identify the associated problems.

内容概要

This book reports the research findings of Tsinghua Sustainable Urban Mobility (SUMO) Project. The project is an independent and interdisciplinary academic study with the aim to better understand the fundamental urban mobility problems in a process of fast urbanization and to provide the theory, methodology and policy recommendations for realizing sustainable urban mobility. Six disciplines from Tsinghua University, i.e. urban planning, transportation, energy, environment, vehicle technology and public policy, as well as researchers from other institutions as Fudan University, joined this unprecedented interdisciplinary research activity and ensured furthest a balanced, comprehensive and integrated perspective of Chinese urban mobility problems as it is. The project lasted for 3 years since June 1st, 2005 and fortunately got strong and continuous support from China National Development and Reform Commission (NDRC) and BP. The main contents include:

challenges and opportunities facing China's urban transport, metropolitan area and regional transport system, balanced urban planning and urban transport planning, utilization of urban underground space, transport demand management, theory and methodology in sustainable urban mobility planning, realization mechanism and policies for public transport priority, energy development, environment impact evaluation, impact of automobile technology and performance measures for sustainable urban mobility planning. This book may serve as a reference book for students and professors for education purposes in a variety of fields. It may also be very helpful for scholars, technologists and governmental officials who are interested in transport and transport related problems.

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