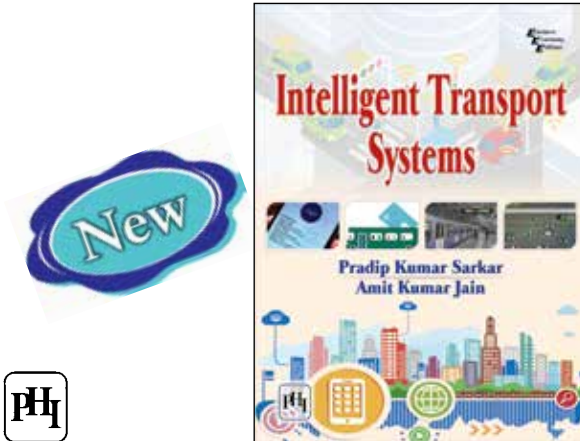


Intelligent Transport Systems

PRADIP KUMAR SARKAR • AMIT KUMAR JAIN

Eastern
Economy
Edition



THE BOOK

Over the time, Intelligent Transport System (ITS) has become important for any country not only for traffic congestion management, but also for modern infrastructure and safety. Since there is a dearth of literature on this subject, this book attempts to fill the gap and provides a holistic work on ITS encompassing theory, examples and case studies on various facets in both road and railway sectors.

The basic principles of various technologies used for ITS have been explained in such a manner that students from non-technical background can also comprehend them with ease. It also discusses the emerging technologies such as autonomous vehicles, electric vehicles, cooperative vehicle highway system, automated highway systems, 5G mobile technology, etc. Considering the need of huge funds required for ITS implementation, the text introduces about various funding options available. Conclusively, it is a unique book that contains all aspects of ITS which a student of engineering is expected to know.

The book is intended as a text for postgraduate students of transportation engineering and as a reference book for professionals such as transport planners, town planners, traffic engineers, transit operators and consultants.

KEY FEATURES

- ITS architecture with a number of case studies based on real-life situation
- Concept of smart city, importance of advanced transport system, and applications of ITS technologies in smart cities
- ITS in Rail sector—intelligent trains, train control systems and intelligent train maintenance practices
- Chapter-end questions for practice and bibliography

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PRADIP KUMAR SARKAR, Ph.D., is Professor and Former Head, Department of Transport Planning, School of Planning and Architecture, New Delhi. Also, he is the Vice-President of the Institute of Urban Transport, India. He is presently engaged in teaching, research and consulting work in the area of Transport Planning. He is an active member of various technical committees of the national importance. He was a Commonwealth Academic Fellow at Newcastle University, UK in 2003. He frequently interacts with print and television media as an expert and offers solutions for Traffic and Transportation problems. Besides this, he has written three books on *Transportation Planning: Principles, Practices and Policies*; *Transport Economics*; and *Sustainable Transport System* and contributed more than 110 papers published at national and international levels.

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2017 / ? pp. / ? × ? cm / ISBN-978-81-203-? / ₹ ?.00

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Mudrak 09/2017