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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CONTENTS

Preface
1. Introduction
2. Challenges and Opportunities in Intelligent Transport System
3. Understanding the ITS Architecture
4. Technology Building Blocks for ITS
5. Various Detection, Identification and Collection Methods for ITS
6. Traffic Management System Components and Intelligent Transport System
7. Transport Demand Management
8. ITS for Public Transport
10. ITS Based Transport Solutions in Urban Area for Vulnerable Road Users
11. ITS for Law Enforcement
12. Introduction to Railways
13. Intelligent Train Control System (ITCS)
14. Intelligent Trains
15. Intelligent Maintenance System
16. Intelligent Ticketing System
17. ITS Funding Options
18. Performance and Evaluation of ITS Based Tools
19. ITS for Smart Cities
20. ITS Case Studies
21. ITS Standards and Specifications
Appendix A Typical Metro Train Maintenance System
Appendix B RFID Specifications
Appendix C Automatic Number Plate Recognition (ANPR) for Toll Booths and Gate Access Control
Appendix D Measuring Traffic Congestion and Speed using Mobile Network and GPS Probes
Glossary • Abbreviations • Index