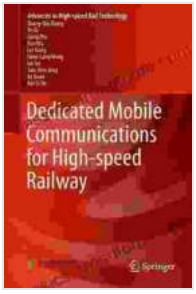
Dedicated Mobile Communications for High Speed Railway: Advances in High Speed

The rapid development of high-speed railway systems has created a growing demand for high-speed mobile broadband services on trains. This book presents the latest advances in dedicated mobile communications for high speed railway systems. It provides a comprehensive overview of the enabling technologies, protocols, and applications that are being developed to support this demand.



Dedicated Mobile Communications for High-speed Railway (Advances in High-speed Rail Technology)

by Anita Gupta

4.6 out of 5

Language	: English
File size	: 13022 KB
Text-to-Speech	: Enabled
Screen Reader	: Supported
Enhanced typesetting	: Enabled
Word Wise	: Enabled
Print length	: 359 pages

The book is divided into three parts. The first part provides an overview of the high-speed railway environment and the challenges of providing mobile broadband services on trains. The second part describes the enabling technologies for dedicated mobile communications for high speed railway systems, including 5G, LTE, and Wi-Fi. The third part presents the applications and services that are being developed for high-speed railway

systems, including train-to-ground communications, train-to-train communications, and passenger information and entertainment services.

This book is a valuable resource for researchers, engineers, and operators who are involved in the development and deployment of dedicated mobile communications for high speed railway systems. It is also a useful reference for students and professionals who are interested in learning more about this emerging field.

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Chapter 1:

This chapter provides an overview of the high-speed railway environment and the challenges of providing mobile broadband services on trains. It also introduces the concept of dedicated mobile communications for high speed railway systems.

Chapter 2: High-Speed Railway Environment

This chapter describes the high-speed railway environment in detail. It discusses the physical characteristics of high-speed railways, the operating environment, and the challenges of providing mobile broadband services on trains.

Chapter 3: Enabling Technologies

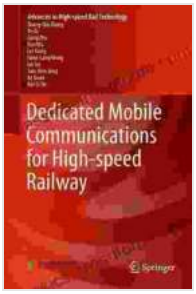
This chapter describes the enabling technologies for dedicated mobile communications for high speed railway systems. It covers 5G, LTE, and Wi-Fi technologies, as well as other key technologies such as train-to-ground communications and train-to-train communications.

Chapter 4: Applications and Services

This chapter presents the applications and services that are being developed for high-speed railway systems. It covers train-to-ground communications, train-to-train communications, and passenger information and entertainment services.

Chapter 5:

This chapter provides a summary of the book and discusses the future of dedicated mobile communications for high speed railway systems.



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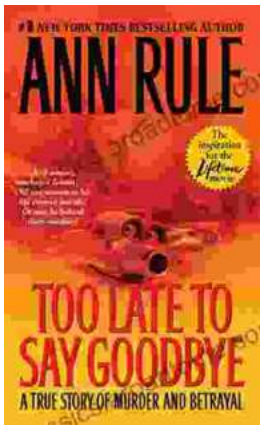

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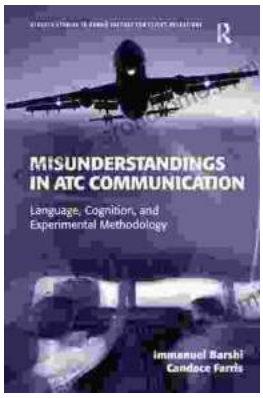

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