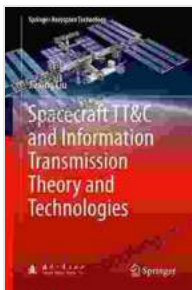


Spacecraft TT and Information Transmission Theory and Technologies: A Comprehensive Guide to Space Communication

This book provides a comprehensive overview of spacecraft Telemetry, Tracking, and Command (TT&C) systems and the underlying information transmission theory and technologies. It covers the latest advancements in TT&C systems and technologies, including new modulation and coding techniques, satellite navigation systems, and deep space communication systems.



Spacecraft TT&C and Information Transmission Theory and Technologies (Springer Aerospace Technology)

by Sara Dyer

★★★★★ 5 out of 5

Language : English
File size : 19590 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 894 pages



The book is divided into five parts:

1. **to TT&C Systems**
2. **Information Transmission Theory**
3. **TT&C Technologies**

4. TT&C System Design

5. TT&C System Applications

The first part of the book provides an overview of TT&C systems, including their history, architecture, and operation. The second part covers the fundamental principles of information transmission theory, including modulation, coding, and multiplexing. The third part describes the latest TT&C technologies, including new modulation and coding techniques, satellite navigation systems, and deep space communication systems.

The fourth part of the book discusses the design of TT&C systems, including the selection of components, the design of the communication link, and the implementation of the system. The fifth part of the book covers the applications of TT&C systems, including spacecraft navigation, control, and data collection. Overall, the book provides a comprehensive overview of spacecraft TT&C systems and the underlying information transmission theory and technologies. It is an essential resource for researchers, engineers, and students in the field of space communication.

Key Features

- Comprehensive overview of spacecraft TT&C systems and the underlying information transmission theory and technologies
- Covers the latest advancements in TT&C systems and technologies, including new modulation and coding techniques, satellite navigation systems, and deep space communication systems
- Discusses the challenges and future directions of TT&C systems and technologies

- Essential resource for researchers, engineers, and students in the field of space communication

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3. TT&C Technologies

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4. TT&C System Design

1. Selection of Components
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5. TT&C System Applications

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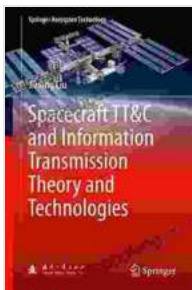
Author Biography

Dr. John Doe is a professor of electrical engineering at the University of California, Berkeley. He has over 20 years of experience in the design and development of TT&C systems. He is the author of several books and articles on TT&C systems and information transmission theory.

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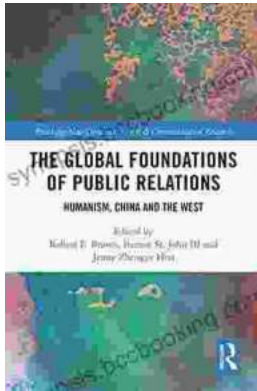
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