



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

By Jiaxing Liu

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*Spacecraft TT&C and Information Transmission Theory and Technologies* introduces the basic theory of spacecraft TT&C (telemetry, track and command) and information transmission. Combining TT&C and information transmission, the book presents several technologies for continuous wave radar including measurements for range, range rate and angle, analog and digital information transmissions, telecommand, telemetry, remote sensing and spread spectrum TT&C. For special problems occurred in the channels for TT&C and information transmission, the book represents radio propagation features and its impact on orbit measurement accuracy, and the effects caused by rain attenuation, atmospheric attenuation and multi-path effect, and polarization composition technology. This book can benefit researchers and engineers in the field of spacecraft TT&C and communication systems.

**Liu Jiaxing** is a professor at The 10th Institute of China Electronics Technology Group Corporation.

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**Spacecraft TT&C and Information Transmission Theory and Technologies (Springer Aerospace Technology) By Jiaxing Liu Bibliography**

- Sales Rank: #3229864 in Books
- Published on: 2014-09-04
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x 1.19" w x 6.14" l, .0 pounds
- Binding: Hardcover
- 531 pages

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#### About the Author

Jiaxing Liu is a professor at the 10th Research Institute of China Electronics Technology Group Corporation, where for the past 40 years he had participated in vital research pertaining to the design of various space TTC systems. He is a winner of Chinese Manned Space Outstanding Contributions Award, National Science and Technology Progress Awards, and National Defense Science and Technology Progress Awards. He has published over 100 papers, 4 books, and a paper collection on related subjects.

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