

Satellite Communication Engineering, Second Edition

By Michael Olorunfunmi Kolawole

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An undeniably rich and thorough guide to satellite communication engineering, **Satellite Communication Engineering, Second Edition** presents the fundamentals of information communications systems in a simple and succinct way. This book considers both the engineering aspects of satellite systems as well as the practical issues in the broad field of information transmission. Implementing concepts developed on an intuitive, physical basis and utilizing a combination of applications and performance curves, this book starts off with a progressive foundation in satellite technology, and then moves on to more complex concepts with ease.

What’s New in the Second Edition:

The second edition covers satellite and Earth station design; global positioning systems; antenna tracking; links and communications systems; error detection and correction; data security; regulations and procedures for system modeling; integration; testing; and reliability and performance evaluation.

- Provides readers with the systems building blocks of satellite transponders and Earth stations, as well as the systems engineering design procedure
- Includes the tools needed to calculate basic orbit characteristics such as period, dwell time, coverage area, propagation losses; antenna system features such as size, beamwidth, aperture-frequency product, gain, tracking control; and system requirements such as power, availability, reliability, and performance
- Presents problem sets and starred sections containing basic mathematical development
- Details recent developments enabling digital information transmission and delivery via satellite

Satellite Communication Engineering, Second Edition serves as a textbook for

students and a resource for space agencies and relevant industries.

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Review

"It's application is industry based. …it will excite readers especially with it empirical examples."
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"The book provides a simple explanation of the very technical aspects of satellite systems engineering. It covers a wide range of topics and includes useful topics of Design of Satellite Links, Satellite Communication Network Access Types and Error Detection and Correction Coding Schemes, Regulatory Agencies and Procedures and Mobile Satellite Systems, which is a recent phenomenon. Very good examples are used to illustrate the design procedures."
?Tokunbo Ogunfunmi, Santa Clara university

About the Author

Dr. Michael O. Kolawole received a B.Eng. (1986) degree from Victoria University, Melbourne, and Ph.D. (2000) degree from the University of New South Wales, Sydney, both in electrical engineering. He also received an M.S. (1989) degree from the University of Adelaide in environmental studies. He is the director of Jolade Consulting Company, Melbourne; a chartered professional engineer in Australia; a member of the New York Academy of Sciences, and is a Visiting Professor to the Federal University of Technology, Akure. He has published more than 50 papers in refereed journals and 25 industry-based technical reports covering design, performance evaluation, and developmental algorithms.

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