



# Handbook of Reflector Antennas and Feed Systems: Volume 2 - Feed Systems (Artech House Antennas and Propagation Library)

By Lotfollah Shafai

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**Handbook of Reflector Antennas and Feed Systems: Volume 2 - Feed Systems (Artech House Antennas and Propagation Library)** By Lotfollah Shafai

This is the first truly comprehensive and most up-to-date handbook available on modern reflector antennas and feed sources for diversified space and ground applications. There has never been such an all-encompassing reflector handbook in print, and no currently available title offers coverage of such recent research developments. The Handbook consists of three volumes. Volume 2 focuses on feed sources.

Reflector antennas are extraordinary devices that combine high gain with geometrical simplicity, and can operate in broad frequency bands. Their performance, however, depends on the electrical characteristics of the feed system with which they operate. This comprehensive volume provides you with a solid understanding of feed system theory, design, and analysis.

Featuring chapters authored by experts in each aspect of feed systems, this book takes you from fundamental mathematical techniques, electrically small and large dual reflectors, feed geometry and telemetry, tracking and command antennas, and more. Throughout the book numerous examples are provided to guide you in the practical aspects of feed design.

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### **About the Author**

Lotfollah Shafai is the Canada Research Chair in the Electrical and Computer Engineering Department at the University of Manitoba. He earned his PhD in electrical engineering from the University of Toronto. Satish K. Sharma is an associate professor in the Department of Electrical and Computer Engineering at the San Diego State University. He earned his PhD in electronics engineering from the Indian Institute of Technology (BHU), Varanasi. Sudhakar Rao is a Technical Fellow at Northrop Grumman Aerospace Systems. He earned his PhD in electrical engineering from the Indian Institute of Technology, Madras.

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