



# Handbook of Reflector Antennas and Feed Systems: Volume 1 - Theory and Design of Reflectors (Artech House Antennas and Propagation Library)

By Satish K Sharma

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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 1 provides a unique combination of theoretical underpinnings with design considerations and techniques.

The need for knowledge in reflector antennas has grown steadily over the last two decades due to increased use in space and ground applications, as well as their high gain and wide bandwidth capabilities at relatively low cost. This volume brings you to the leading edge of developments in the field related to numerical techniques, classical reflector geometries, adaptive reflector antennas, shaped reflectors, bifocal and bicollimated dual reflectors, advanced reflectors, and reflect arrays. A must-have reference for both practicing engineers as well as academic researchers.

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### **About the Author**

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. 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.

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