



# Antennas for Base Stations in Wireless Communications (Electronics)

By Zhi Ning Chen, Kwai-Man Luk

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**Antennas for Base Stations in Wireless Communications (Electronics)** By  
Zhi Ning Chen, Kwai-Man Luk

## Design Antennas for Modern Wireless Communications Systems

Written by a global team of expert contributors, this book offers complete details on the wide range of antennas used in today's wireless communication networks. Coverage includes the most popular applications in WWAN (GSM, CDMA, and WCDMA), WLAN (Bluetooth and WiFi), WMAN (WiMAX), and WPAN (UWB and RFID).

*Antennas for Base Stations in Wireless Communications* presents a full picture of modern base station antenna technology--from fundamentals and parameters to engineering and advanced solutions--and highlights new technologies in antenna design with enhanced performance. Real-world case studies provide you with practical examples that can be applied to your own system designs.

- Apply measurement techniques for various parameters
- Enable frequency re-use and channel capacity optimization in mobile radio networks
- Design antennas for mobile communications-CDMA, GSM, and WCDMA
- Implement advanced antenna technologies for GSM base stations
- Facilitate enhanced system capacity
- Design unidirectional antennas, including directed dipole, wideband patch, and complementary antennas
- Optimize antenna designs for WLAN (WiFi) applications
- Design antennas for Wireless Personal Area Network (WPAN) applications, including RFID and UWB

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### **Editorial Review**

#### **About the Author**

**Zhi Ning Chen, Ph.D., DoE**, (Editor) is principal scientist and department head for RF & Optical at the Institute for Infocomm Research. He is concurrently holding adjunct professor appointments at Southeast University, Nanjing University, National University of Singapore and Nanyang Technological University, Singapore, and is a fellow of the IEEE.

**Kwai-Man Luk, Ph.D.**, (Editor) is currently a head and chair professor of the Electronic Engineering Department at City University of Hong Kong. His recent research interests include design of patch, planar and dielectric resonator antennas, microwave and antenna measurements, and computational electromagnetics.

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