

Contents

Part I Antenna Systems

1	Integrated Lens Antennas	3
	Artem V. Boriskin, Ronan Sauleau, Jorge R. Costa and Carlos Fernandes	
2	Multi-shell Radially Symmetrical Lens Antennas	37
	Zvonimir Sipus and Tin Komljenovic	
3	Advanced Feeds for mm-Wave Antenna Systems	75
	Jorge Teniente, Juan Carlos Iriarte, Iñigo Ederria and Ramon Gonzalo	
4	Flat Corrugated and Bull’s-Eye Antennas	111
	Miguel Beruete, Unai Beaskoetxea and Tahsin Akalin	
5	Reflectarrays	143
	Sean Victor Hum	
6	Transmitarray Antennas	191
	Laurent Dussopt	
7	Fabry-Perot Cavity Antennas	221
	Alexandros Feresidis, Konstantinos Konstantinidis and Peter Gardner	
8	Near-Field Focusing by Non-diffracting Bessel Beams	243
	Mauro Ettore, Santi Concetto Pavone, Massimiliano Casaletti, Matteo Albani, Agnese Mazzinghi and Angelo Freni	
9	Metasurface Antennas	289
	Gabriele Minatti, Marco Faenzi, Mario Mencagli, Francesco Caminita, David González Ovejero, Cristian Della Giovampola, Alice Benini, Enrica Martini, Marco Sabbadini and Stefano Maci	

10	Terahertz Antennas and Feeds	335
	Goutam Chattopadhyay, Maria Alonso-delPino, Nacer Chahat, David González-Ovejero, Choonsup Lee and Theodore Reck	
11	Transformation Optics Applied to Antennas and Focusing Systems	387
	Rhiannon C. Mitchell-Thomas and Oscar Quevedo-Teruel	
 Part II Antenna Measurements		
12	Antenna Measurements at Millimeter and Submillimeter Wavelengths	409
	Antti V. Räisänen, Juha Ala-Laurinaho, Thomas Crowe, Sergiy Pivnenko, Manuel Sierra Castañer and Ville Viikari	
13	Holographic Imaging Approach	451
	Christian Schildbach and Lorenz-Peter Schmidt	
	Index	483

Aperture Antennas for Millimeter and Sub-Millimeter
Wave Applications

Boriskin, A.; Sauleau, R. (Eds.)

2018, X, 490 p. 323 illus., 218 illus. in color., Hardcover

ISBN: 978-3-319-62772-4