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Autore	Abdelrahman Ahmed H.
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Nota di bibliografia	Includes bibliographical references (pages 141-145).
Nota di contenuto	1. Introduction -- 1.1 Transmitarray antenna concept -- 1.2 Comparison with some related antenna technologies -- 1.3 Transmitarray design approaches -- 1.3.1 Multi-layer frequency selective surfaces (M-FSS) -- 1.3.2 Receiver-transmitter design -- 1.3.3 Metamaterial/transformation approach -- 1.4 Overview of research topics -- 2. Space-fed array design method -- 2.1 Phase distribution on transmitarray aperture -- 2.2 Unit-cell element analysis -- 2.3

Radiation analysis using the array theory -- 2.4 Directivity calculations -- 2.4.1 Method 1: numerical integration -- 2.4.2 Method 2: utilization of Bessel function -- 2.4.3 Method 3: illumination efficiency -- 2.4.4 Comparison between the three methods -- 2.4.5 Directivity bandwidth -- 2.5 Antenna gain -- 2.5.1 Spillover efficiency -- 2.5.2 Element losses -- 2.6 Phase error analysis -- 2.6.1 Design errors -- 2.6.2 Approximations in unit-cell analysis -- 2.6.3 Manufacturing errors --
3. Analysis of multi-layer transmitarray antenna -- 3.1 Single-layer FSS analysis -- 3.1.1 Theoretical analysis of single-layer FSS -- 3.1.2 Numerical demonstration of single-layer FSS -- 3.1.3 Single-layer of double square loop elements -- 3.1.4 Single conductor with a substrate layer -- 3.2 Double-layer FSS analysis -- 3.2.1 Theoretical analysis of double-layer FSS -- 3.2.2 Numerical demonstration of double-layer FSS -- 3.3 Multi-layer FSS analysis -- 3.3.1 Analytical analysis of triple-layer FSS -- 3.3.2 Numerical demonstration of triple-layer FSS -- 3.3.3 Quad-layer FSS --
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7. Single-feed multi-beam transmitarrays -- 7.1 Design methodologies for single-feed multi-beam transmitarray antennas -- 7.2 Design of Ku-band single-feed quad-beam transmitarray antennas -- 7.3 Prototype fabrication and measurements -- 7.4 Transmitarray approximation and performance discussions -- 7.4.1 Oblique incidence effect of the unit-cell element -- 7.4.2 Variations in dimensions of neighboring elements -- 7.4.3 Phase error and magnitude loss effect on the radiation patterns --
8. Conclusions -- 8.1 Contributions of this book -- 8.2 Future work --
A. S-matrix of cascaded layers -- Bibliography -- Authors' biographies.

Sommario/riassunto

In recent years, transmitarray antennas have attracted growing interest with many antenna researchers. Transmitarrays combines both optical and antenna array theory, leading to a low profile design with high gain, high radiation efficiency, and versatile radiation performance for many wireless communication systems. In this book, comprehensive analysis, new methodologies, and novel designs of transmitarray antennas are presented.

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Autore	Webbe Joseph
Titolo	A petition to the High Court of Parliament, in the behalfe of auncient and authentiqne [sic] authors, for the vniversall and perpetuall good of euery man and his posteritie: presented by Ioseph. Webbe, Dr. in Ph [[electronic resource]]
Pubbl/distr/stampa	[London], : Printed, 1623 [i.e. 1624]
Descrizione fisica	[2], 20 p
Soggetti	Latin language - Study and teaching
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Livello bibliografico	Monografia
Note generali	Requests a grant of a patent for 21 years for his method of teaching languages. The imprint year is given according to Lady Day dating. Reproduction of the original in the Henry E. Huntington Library and Art Gallery.
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