

1. Record Nr.	UNINA9910459932603321
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Titolo	Microwave scattering and emission models and their applications // Adrian K. Fung, K.S. Chen
Pubbl/distr/stampa	Boston : , : Artech House, , ©2010 [Piscataqay, New Jersey] : , : IEEE Xplore, , [2009]
ISBN	1-60807-038-7
Descrizione fisica	1 online resource (445 p.)
Collana	The Artech House remote sensing series
Altri autori (Persone)	ChenK. S <1959-> (Kun-Shan)
Disciplina	621.3678
Soggetti	Bistatic radar - Mathematical models Radar cross sections Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Microwave Scattering and Emission Models for Users; Contents; Preface; Chapter 1 Introduction to Microwave Scattering and Emission Models for Users; 1.1 INTRODUCTION; 1.2 ORGANIZATION; 1.3 MODEL DEFINITIONS FOR ACTIVE AND PASSIVE SENSING; Chapter 2 The Small Perturbation Surface Backscattering Model; 2.1 INTRODUCTION; 2.1.1 Shadowing Considerations; 2.2 ISOTROPIC EXPONENTIAL CORRELATION WITH A GAUSSIANHEIGHT DISTRIBUTION; 2.2.1 Theoretical Trends for the Exponential Correlation; 2.2.2 Comparison with Measurements; 2.3 ISOTROPIC GAUSSIAN CORRELATION WITH A GAUSSIANHEIGHT DISTRIBUTION 2.3.1 Theoretical Trends for the Gaussian Correlation2.3.2 Comparison with Measurements; 2.4 ISOTROPIC X-POWER CORRELATION WITH A GAUSSIAN HEIGHT DISTRIBUTION; 2.4.1 Theoretical Trends for the x-Power Correlation; 2.4.2 Comparison with Measurements; 2.5 ISOTROPIC X-EXPONENTIAL CORRELATION WITH A GAUSSIAN HEIGHT DISTRIBUTION; 2.5.1 Theoretical Trends for the x-Exponential Correlation; 2.5.2 Comparison with Measurements; 2.6 ISOTROPIC EXPONENTIAL-LIKE CORRELATION WITH AGAUSSIAN HEIGHT DISTRIBUTION; 2.6.1 Theoretical Trends for the Exponential-Like Correlation; 2.6.2 Comparison with Measurements 2.7 DISCUSSIONReferences; Chapter 3 The Simplified Integral Equation

Surface Backscattering Model; 3.1 INTRODUCTION; 3.1.1 The Simplified IEM Model; 3.1.2 Computer Program Organization; 3.2 ISOTROPIC EXPONENTIAL CORRELATION; 3.2.1 Theoretical Trends in Like Polarized Scattering with Exponential Correlation; 3.2.2 Theoretical Trends in Cross-Polarized Scattering with Exponential Correlation; 3.2.3 Comparison with Measurements; 3.3 ISOTROPIC GAUSSIAN CORRELATION; 3.3.1 Theoretical Trends in Like Polarized Scattering with Gaussian Correlation
3.3.2 Theoretical Trends in Cross-Polarized Scattering with Gaussian Correlation
3.3.3 Comparison with Measurements and Simulations; 3.4 ISOTROPIC X-POWER CORRELATION; 3.4.1 Theoretical Trends in Like Polarized Scattering with x-Power Correlation; 3.4.2 Theoretical Trends in Cross-Polarized Scattering with x-Power Correlation; 3.4.3 Comparison with Measurements and Simulations; 3.5 ISOTROPIC X-EXPONENTIAL CORRELATION; 3.5.1 Theoretical Trends in Like Polarized Scattering with x-Exponential Correlation; 3.5.2 Comparison with Measurements; 3.6 ISOTROPIC EXPONENTIAL-LIKE CORRELATION
3.6.1 A Comparison of Spectral Contents
3.6.2 Theoretical Trends in Like Polarized Scattering with Exponential-Like Correlation; 3.6.3 Comparison with Measurements and Simulations; 3.7 DISCUSSION; References; Chapter 4 The IEM-B Surface Backscattering Model; 4.1 INTRODUCTION; 4.2 ISOTROPIC EXPONENTIAL CORRELATION; 4.2.1 Theoretical Trends for Like Polarization with Exponential Correlation; 4.2.2 Comparison with Measurements; 4.3 ISOTROPIC GAUSSIAN CORRELATION; 4.3.1 Theoretical Trends for Like Polarization with Gaussian Correlation; 4.3.2 Comparison with Measurements and Simulations

Sommario/riassunto

Today, microwave remote sensing has evolved into a valuable and economical tool for a variety of applications. It is used in a wide range of areas, from geological sensing, geographical mapping, and weather monitoring, to GPS positioning, aircraft traffic, and mapping of oil pollution over the sea surface. This unique resource provides microwave remote sensing professionals with practical scattering and emission data models that represent the interaction between electromagnetic waves and a scene on the Earth surface in the microwave region. The book helps engineers understand and apply these models to their specific work in the field. CD-ROM Included! Contains Mathematica code for all the scattering and emission models presented the book, so practitioners can easily use the models for their own applications.

2. Record Nr.	UNINA9910793333303321
Autore	Wisker Gina <1951->
Titolo	Getting published : academic publishing success / / by Gina Wisker
Pubbl/distr/stampa	London, England : , : Macmillan Education UK, , 2015
ISBN	0-230-39211-3
Descrizione fisica	1 online resource (354 pages) : illustrations
Disciplina	808.066378
Soggetti	Education Academic writing Education - Research
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.