1. Record Nr.   UNINA9910139054203321

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   Titolo   Numerical analysis in electromagnetics [[electronic resource]] : the TLM
                       method / / Pierre Saguet

   Pubbl/distr/stampa London, : ISTE
                       Hoboken, N.J., : Wiley, 2012

   ISBN   1-118-56235-6
                       1-118-61400-3
                       1-299-31492-9
                       1-118-61422-4

   Edizione   [1st edition]

   Descrizione fisica 1 online resource (186 p.)

   Collana   ISTE

   Disciplina   537.01/515

   Soggetti   Electromagnetism - Mathematical models
                       Time-domain analysis
                       Numerical analysis
                       Electrical engineering - Mathematics

   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 (p. [161]-169) and index.

   Nota di contenuto   Cover; Numerical Analysis in Electromagnetics; Title Page; Copyright
                       Page; Table of Contents; Introduction; Chapter 1. Basis of the TLM
                       Method: the 2D TLM Method; 1.1. Historical introduction; 1.2. 2D
                       simulation; 1.2.1. Parallel node; 1.2.2. Series node; 1.2.3. Simulation of
                       inhomogeneous media with losses; 1.2.4. Scattering matrices; 1.2.5.
                       Boundary conditions; 1.2.6. Dielectric interface passage conditions;
                       1.2.7. Dispersion of 2D nodes; 1.3. The TLM process; 1.3.1. Basic
                       algorithm; 1.3.2. Excitation; 1.3.3. Output signal processing; Chapter 2.
                       3D Nodes; 2.1. Historical development
                       2.1.1. Distributed nodes2.1.2. Asymmetrical condensed node (ACN);
                       2.1.3. The symmetrical condensed node (SCN); 2.1.4. Other types of
                       nodes; 2.2. The generalized condensed node; 2.2.1. General
                       description; 2.2.2. Derivation of 3D TLM nodes; 2.2.3. Scattering
                       matrices; 2.3. Time step; 2.4. Dispersion of 3D nodes; 2.4.1.
                       Theoretical study in simple cases; 2.4.2. Case of inhomogeneous
                       media; 2.5. Absorbing walls; 2.5.1. Matched impedance; 2.5.2.

| Sommario/riassunto | The aim of this book is to give a broad overview of the TLM (Transmission Line Matrix) method, which is one of the "time-domain numerical methods". These methods are reputed for their significant reliance on computer resources. However, they have the advantage of being highly general.The TLM method has acquired a reputation for being a powerful and effective tool by numerous teams and still benefits today from significant theoretical developments. In particular, in recent years, its ability to simulate various situations with excellent precision, including complex materials, has been |