

1. Record Nr.	UNINA9910324957903321
Autore	Forman Michael Lawrence <1940->
Titolo	Kapampangan dictionary // Michael L. Forman
Pubbl/distr/stampa	Honolulu, Hawaii : , : University Press of Hawaii, , 2019 ©1971
ISBN	0-8248-8112-5
Descrizione fisica	1 online resource (xiii, 246 pages)
Collana	PALI Language Texts. Philippines
Disciplina	499.21
Soggetti	Pampanga language - English
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910830056503321
Autore	Jarry Pierre
Titolo	Rf and microwave electromagnetism // Pierre Jarry, Jacques N. Beneat
Pubbl/distr/stampa	Hoboken, New Jersey : , : iSLE : , : Wiley, , 2014 ©2014
ISBN	1-118-98509-5 1-118-98510-9 1-118-98508-7
Descrizione fisica	1 online resource (224 p.)
Collana	Waves series
Disciplina	621.381/325
Soggetti	Electromagnetism - Mathematics Electromagnetic fields Microwaves Microwave communication systems
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 at the end of each chapters and index.
Nota di contenuto	Cover; Title Page; Copyright; Contents; Preface; Introduction; Part 1. Transmission Lines; Chapter 1. Electromagnetic of TEM Transmission Lines; 1.1. General waves; 1.2. Transverse electromagnetic (TEM) waves; 1.3. Solutions of the transverse electromagnetic waves; 1.4. Characteristic parameters of the TEM lines; 1.4.1. Capacitance per unit of length; 1.4.2. Characteristic impedance; 1.4.3. Conductance per unit of length; 1.5. The power; 1.5.1. Density; 1.5.2. Flux; 1.6. Problems; 1.6.1. The band-line; 1.6.2. The coaxial cable; 1.7. Bibliography; Chapter 2. Losses In TEM Transmission Lines 2.1. Introduction 2.2. Perturbation computing; 2.3. Dielectric losses; 2.3.1. Determination from the dielectric constant; 2.3.2. Determination from the Maxwell-Ampere relation; 2.4. Metallic losses; 2.5. General case: dielectric losses and metallic losses; 2.6. Problems; 2.6.1. The transmission line with low losses; 2.6.2. Coaxial cable with losses; 2.7. Bibliography; Chapter 3. Determination of The Characteristics of TEM Lines; 3.1. Introduction; 3.2. Conform transformations; 3.2.1. Determination of the capacity; 3.2.2. Transformation in the complex plane; 3.2.3. Orthogonality 3.2.4. Position of $\Delta\tau$ versus $\Delta v$ 3.2.5. Recapitulation; 3.2.6. Example of computation; 3.3. Finite differences method; 3.3.1. Example of the finite differences method; 3.4. Problems; 3.4.1. Conform transformations; 3.4.2. Eccentric coaxial line using conform transformations; 3.5. Bibliography; Part 2. Guides; Chapter 4. Electromagnetic In Linear, Homogeneous, Isotropic And Lossless Guides; 4.1. Introduction; 4.2. Equations for a lossless medium; 4.3. Limiting conditions; 4.4. Progressive and evanescent waves; 4.5. Propagating waves; 4.6. Group speed; 4.7. Average power flux 4.7.1. Stokes' theorem 4.7.2. Ostrogradsky's theorem; 4.8. Power density; 4.9. Energy speed; 4.10. First example of TE waves; 4.11. Second example of TM waves; 4.12. Inverse waves; 4.13. Behavior of the TE and TM waves versus the position of frequency in connection with the cutoff; 4.13.1. Above the cutoff $w > w_c$ ; 4.13.2. At the cutoff $w = w_c$ ; 4.13.3. Under the cutoff $w < w_c$ ; 4.13.4. Summary; 4.14. Bibliography; Chapter 5. Losses In Guides; 5.1. Introduction; 5.2. TE waves; 5.3. TM waves; 5.4. Attenuation in the cases of TM and TE waves; 5.5. Problem 5.5.1. Waves between two parallel metallic and lossy planes 5.6. Bibliography; Chapter 6. Rectangular TM And TE Guides; 6.1. Introduction; 6.2. TM rectangular guide; 6.2.1. The fields; 6.2.2. The dispersive relation; 6.2.3. The power flux; 6.2.4. Attenuation; 6.2.5. Field lines; 6.3. TE rectangular guide; 6.3.1. The fields; 6.3.2. The dispersive relation; 6.3.3. The power flux; 6.3.4. Attenuation of the fundamental $m = 0$ and $n = 1$ ; 6.4. Problems; 6.4.1. The fundamental TE <sub>01</sub> mode of the rectangular guide; 6.4.2. Rectangular TE <sub>01</sub> guide with dielectric; 6.5. Bibliography Chapter 7. Circular TM And TE Guides
Sommario/riassunto	Microwave and RF elements play an important role in communication systems and due to the proliferation of radars, satellites, and mobile systems there is a need for the study of Electromagnetism. This book provides basic knowledge for the microwave and RF range. The book is intended for microwave engineers and for advanced graduate students (fourth and fifth year of university and engineers). Each of the ten chapters provides a complete analysis and modeling of the microwave structure used for emission or reception technology. We hope that this

will provide to the students with a set

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