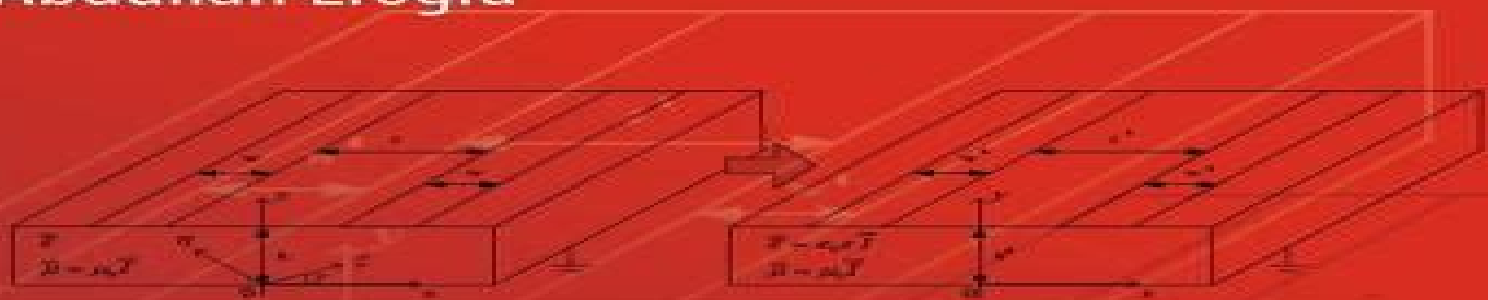


Abdullah Eroglu



Wave Propagation and Radiation in Gyrotropic and Anisotropic Media

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Anthony S. Fauci



Wave Propagation And Radiation In Gyrotropic And Anisotropic Media:

Wave Propagation and Radiation in Gyrotropic and Anisotropic Media Abdullah Eroglu, 2010-09-02 As technology matures communication system operation regions shift from mic wave and millimeter ranges to sub millimeter ranges However device performance at very high frequencies suffers drastically from the material deficiencies As a result engineers and scientists are relentlessly in search for the new types of materials and composites which will meet the device performance requirements and not present any deficiencies due to material electrical and magnetic properties Anisotropic and gyrotropic materials are the class of the materials which are very important in the development high performance microwave devices and new types composite layered structures As a result it is a need to understand the wave propagation and radiation characteristics of these materials to be able to realize them in practice This book is intended to provide engineers and scientists the required skill set to design high frequency devices using anisotropic and gyrotropic materials by providing them the theoretical background which is blended with the real world engineering application examples It is the author's hope that this book will help to fill the gap in the area of applied electromagnetics for the design of microwave and millimeter wave devices using new types of materials Each chapter in the book is designed to give the theory first on the subject and solidify it with application examples given in the last chapter The application examples for the radiation problems are given at the end of Chap 5 and Chap 6 for anisotropic and gyrotropic materials respectively after the theory section

The United States Department of Commerce Publications, Catalog and Index Supplement United States. Department of Commerce, 1954 *Journal of Applied Physics & Applied Physics Letters* Nichigai Asoshietsu, 1974 **Linear Antennas in Gyrotropic Media** Ho-shou Lu, 1969

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IGARSS 2004 ,2004 Selected Papers on Natural Optical Activity Akhlesh Lakhtakia,1990 **Physics of the Solid State** ,1995 **Science Abstracts** ,1962 **Soviet Physics, JETP.** ,1971 Radio Science ,1968 Scientific activities of the Polish Academy of Sciences, Institute of Fundamental Technological Research Instytut Podstawowych Problemów Techniki (Polska Akademia Nauk),1966 *Acta Physica Polonica* Stefan Pieńkowski,1965 NASA SP. ,1965
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