

BOOK REVIEW

Numerical and Asymptotic Techniques in Electromagnetics, by R. Mittra. Vol. 3 of Topics in Applied Physics

This book represents an effort to collect a large quantity of material of current research interest in the rapidly expanding field of numerical electromagnetics. That there is considerable danger in attempting such a task can be attested to by a proliferation of loosely edited, multiple authored volumes of doubtful importance over the past five years in various branches of applied physics. Happily, this present book surmounts most of the dangers and succeeds in filling some important gaps between the technical journals and current texts on electromagnetic theory.

The book can be divided into two general sections. The first, comprising the first five chapters, deals with techniques applicable to objects roughly smaller than a wavelength; the second, comprising the last two chapters, deals with techniques applicable to objects larger than a wavelength. Of particular note are chapters on characteristic modal solutions (R. F. Harrington) and the geometrical theory of diffraction (R. G. Kouyoumdjian) which make their appearance as organized chapters in book form for the first time.

The potential reader should be forewarned that this book does not make for casual reading. Each chapter demands a knowledge of certain background material different from the other. Chapter 4, for example deals with numerical techniques applicable to thin wires and presupposes at the very least a knowledge of the basic ideas in the method of moments and the basic formulations of the integral equations for thin wire structures. Chapter 3 on the other hand deals with characteristic modal expansions which have their background in the orthogonality properties arising in certain considerations in the spectral theory of operators. Fortunately, each chapter contains an excellent bibliography which is essential for striking a balance between the journals and the background mathematical necessities.

In reviewing the material in this book, one cannot help but be impressed by the large quantity of work which yet remains to be done in a field of applied physics long considered classic. There remains, as pointed out by R. Mittra in the introductory chapter, a gap between the lower frequency techniques, where

computing machine storage has become a limiting factor, and the higher frequency techniques, where it becomes excruciatingly difficult to add further corrections to the physical optics fields, beyond what has already been by Keller, et al. In addition, the variety of formulation of problems in the book points up the almost total lack of a formalism in electromagnetic problems such as abounds in the quantum theory.

The electromagnetic researcher and the student alike will both benefit by this book. That it succeeds in a difficult task is due primarily to three factors: first, the authors are competent researchers and writers; second, the organization of the material has been thoroughly tested during the publication period in a series of short courses directed by the editor, R. Mittra; third, the founder of the series "Topics in Applied Physics," H. G. V. Loatch, has insisted on a production schedule that has covered the current character of the material.

Reviewed by:

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Numerical Asymptotic Techniques In Elec

A Gutmann



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