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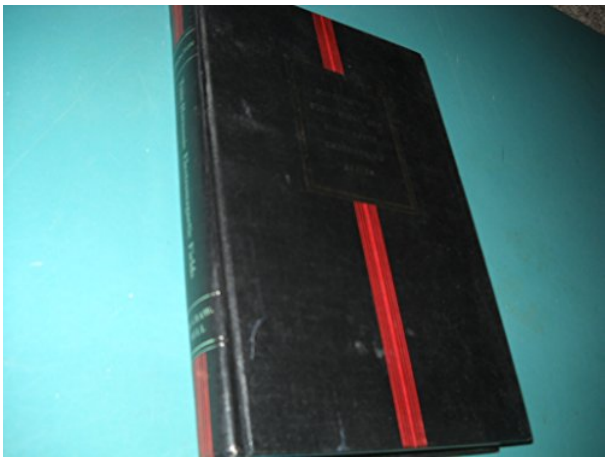

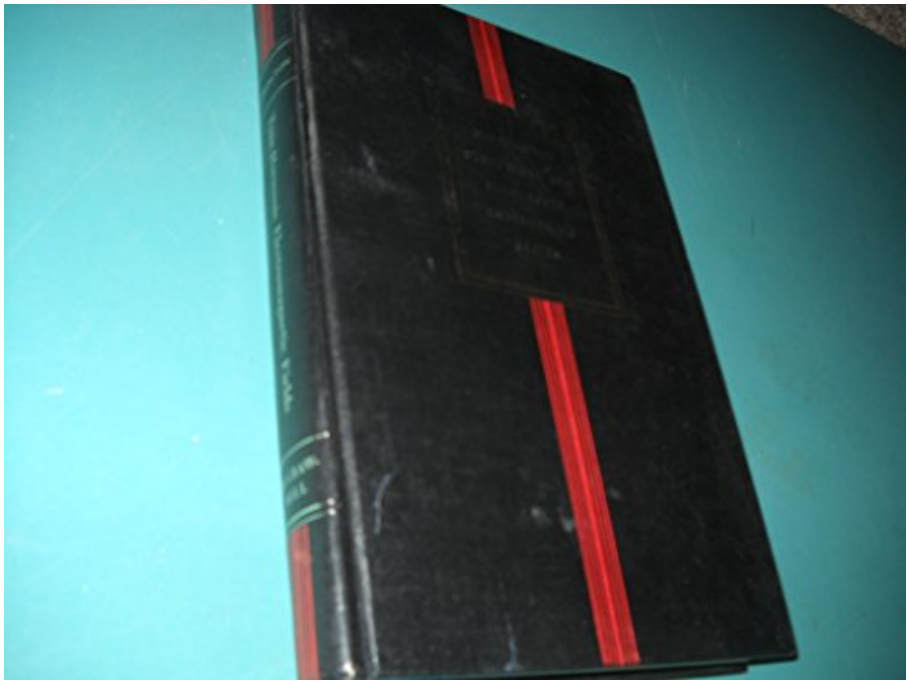

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"...offers in-depth treatment of the subject. Material is organized according to similarity of mathematical techniques...in order to present mathematical techniques for...engineering problems." (SciTech Book News, Vol. 25, No. 4, December 2001)

From the Back Cover
Time-Harmonic Electromagnetic Fields
A Classic Reissue in the IEEE Press Series on Electromagnetic Wave Theory
Donald G. Dudley, Series Editor

"When I begin a new research project, I clear my desk and put away all texts and reference books. Invariably, Harrington's book is the first book to find its way back to my desk. My copy is so worn that it is falling apart."--Dr. Kendall F. Casey, SRI

"In the opinion of our faculty, there is no other book available that serves as well as Professor Harrington's does as an introduction to advanced electromagnetic theory and to classic solution methods in electromagnetics."--Professor Chalmers M. Butler, Clemson University

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The IEEE Press Series on Electromagnetic Wave Theory offers outstanding coverage of the field. It consists of new titles of contemporary interest as well as reissues and revisions of recognized classics by established authors and researchers. The series emphasizes works of long-term archival significance in electromagnetic waves and applications. Designed specifically for graduate students, researchers, and practicing engineers, the series provides affordable volumes that explore and explain electromagnetic waves beyond the undergraduate level.

About the Author

ROGER F. HARRINGTON is a Fellow of the IEEE. Prior to his retirement from active teaching, he was a Distinguished Professor at Syracuse University. Among his many awards and honors, he was awarded the IEEE Centennial Medal in 1984, the IEEE Antennas and Propagation Society Distinguished Achievement Award is 1989, the URSI Van der Pol Medal in 1996, the Jubilee Tesla Medal in 1998, the IEEE Electromagnetics Field Award in 2000, and an IEEE Third Millennium Medal in 2000. He was born in Buffalo, New York, in 1925. He received his BEE and MEE from Syracuse University in 1948 and 1950, respectively, and his PhD from Ohio State University, Columbus, in 1952. Dr. Harrington is a member of Tau Beta Pi, Sigma Xi, the American Association of University Professors, and the International Union of Radio Science.

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- 480 pages

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When I was first introduced to Electro-Magnetics (EM), I thought of Harrington's book as one of these oldies which senior professors have sitting on a dusty shelf. To the novice who I was it lacked the modern flair of the recent publications. Time went on, I took classes which tought me mathematical & numerical recipes, yet left me with little understanding of EM phenomenons. Soon enough and by my own fault I forgot the basic principles while concentrating on the math, and I lost interest. As a microwave design engineer later on I kept bumping into problems which had not yet been discussed in the litterature or for which I needed a simpler solution than the numerical approaches that are in fashion. I looked for the book which would offer the right mix of theoritical treatment and engineering relevance for the likes of me. I noticed that Harrington's was the most quoted one in the litterature just about, and thought that there must be a good reason for this. So I ordered a copy. I went through it with a pen in hand and solved the exercises at the end of each chapter. It was frustrating at first, because I had long lost the habit of manipulating the basic math of EM. I kept at it however, as the more I read the more I realised how much I ignored. I even got the taste for EM over time. Harrington's thus became a reference to which I turn almost every time I face a new EM problem. From a didactic point of view it is about the best textbook I have ever come across. Also it has more relevance to modern EM engineering than it seems at first sight: one will even find a mention of the coplanar waveguide (p.135)! I warmly recommend it to both the engineer and the student. But remember: read it with a pen in hand, and do the exercises at the end of each chapter! A couple of shortcomings I ought to mention though: the stationary formula for the input impedance of a wire dipole radiator ('7.9) is not well explained (see Jordan & Balmain's, '14.09), nor are stationary formulae for the impedance matrix of general networks ('3.8). Still: a very good buy. Harrington's "Field Computation by Moment Methods" is an other good one by the way.

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