

Recent Papers by IBM Authors

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• Journals are listed alphabetically by title; papers are listed sequentially for each journal.

A

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Computer Storage Systems and Technology, R. E. Matick (RES Yorktown Heights, NY), Wiley-Interscience Publishers, New York, 1977.

This book deals with the problem of providing large, fast, inexpensive storage in computer systems. It discusses all related aspects of computer storage systems and technology and relates the various aspects of data structure and usage to the hardware design. Each type of storage device is examined in terms of its speed of access, required size, relative cost, necessary cost, and other advantages and disadvantages.

Coupling of External Electromagnetic Fields to Transmission Lines, A. A. Smith, Jr. (SCD Kingston, NY), Wiley-Interscience Publishers, New York, 1977.

A treatment of currents excited on transmission lines by incident electromagnetic fields is given. The first section of the book develops the general theory for a lossy two-wire line illuminated by a nonuniform field and gives expressions derived for the current distribution and load currents. The common mode and differential mode driving mechanisms are examined. The remainder of the book is devoted to applications. A concise review of transmission line theory is contained in an appendix.