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Microelectronics

CIRCUIT ANALYSIS AND DESIGN



DONALD A. NEAMEN

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Integrating Microelectronics Into Gas Distribution W.F. Rush, J.E. Huebler, R.W. Smith, 2004-01-14 **Scientific and Technical Aerospace Reports** ,1995 *Publications of the National Bureau of Standards ... Catalog* United States.

National Bureau of Standards, 1978 *The Publishers' Trade List Annual* ,1987 *Energy Research Abstracts* ,1989

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Electromigration in ULSI Interconnections Cher Ming Tan, 2010 Electromigration in ULSI Interconnections provides a comprehensive description of the electro migration in integrated circuits It is intended for both beginner and advanced readers on electro migration in ULSI interconnections It begins with the basic knowledge required for a detailed study on electro migration and examines the various interconnected systems and their evolution employed in integrated circuit technology The subsequent chapters provide a detailed description of the physics of electro migration in both Al and Cu based Interconnections in the form of theoretical experimental and numerical modeling studies The differences in the electro migration of Al and Cu based interconnections and the corresponding underlying physical mechanisms for these differences are explained The test structures testing methodology failure analysis methodology and statistical analysis of the test data for the experimental studies on electro migration are presented in a concise and rigorous manner Methods of numerical modeling for the interconnect electro migration and their applications to the understanding of electro migration physics are described in detail with the aspects of material properties interconnection design and interconnect process parameters on the electro migration performances of interconnects in ULSI further elaborated upon Finally the extension of the studies to narrow interconnections is introduced and future challenges on the study of electro migration are outlined and discussed

Scientific and Technical Books and Serials in Print ,1984 NBS Special Publication ,1968 **Publications** United States. National Bureau of Standards, 1979 *Publications of the National Bureau of Standards* United States. National Bureau of Standards, 1985 Publications of the National Institute of Standards and Technology ... Catalog National Institute of Standards and Technology (U.S.), 1986 **British Books in Print** ,1985 Army Research and Development ,1974 **Army RD & A.** ,1974 Monthly Catalog of United States Government Publications United States. Superintendent of Documents, 1966-07 Resources in Education ,1984 *Current Literature on Science of Science* ,1984

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