



Electronic Packaging of High Speed Circuitry

By Stephen G. Konsowski, Arden R. Helland

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With the help of this expert guide, you can design and package the high-frequency circuitry crucial to the performance of today's advanced electronic products, such as Pentium chips, HDTV, and mobile communications. This book fully explains approaches that include basic signal transmission theory, digital and microwave circuit design, and how these are integrated with the packaging and interconnection characteristics. You'll find detailed coverage of signal behavior in both high speed digital and microwave circuits, as well as crucial aspects of materials selection and manufacturing.

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Editorial Review

From the Back Cover

A comprehensive guide to the packaging of high speed circuits for today's advanced electronic products. This is a unique and expert guide to the design and packaging of the high-frequency circuitry crucial to the performance of today's advanced electronic products, such as Pentium chips, HDTV, and mobile communications. Written by two of the leading innovators in the field, this book fully explains integrated design approaches that will enable you to take advantage of all the latest advances in electronic devices, circuit design, materials, and circuit packaging. You'll read about approaches that include basic signal transmission theory, digital circuit design, and how these are integrated with the packaging and interconnection characteristics. There is detailed coverage of signal behavior in both high speed digital circuits, as well as crucial aspects of materials selection and manufacturing. This state-of-the-art resource also provides you with practical design guidelines--plus information on the major issues of design verification and performance evaluation.

About the Author

Stephen G. Konsowski has 34 years of electronic packaging engineering experience. Retired from Westinghouse as an advisory engineer, he is now associated with Technology Seminars, Inc. of Lutherville, Maryland. He is a founding member of the International Electronics Packaging Society (IEPS) and one of its former directors. Mr. Konsowski has authored many technical papers and articles on electronic packaging, including a chapter for the Second Edition of McGraw-Hill's Handbook of Electronic Materials and Processes and Handbook of Packaging and Interconnection. Arden R. Helland is an advisory engineer at the Northrop Grumman Corporation's Electronic Sensors and Systems Division with over 35 years of experience in all phases of electrical design for advanced electronic systems. He is the author of the chapter on the reliability digital systems for the McGraw-Hill Computer Engineering Handbook.

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