

Introduction to

SYSTEM-ON-PACKAGE (SOP)

Miniaturization of the Entire System

Rao R. Tummala
Madhavan Swaminathan

SOC → SIP → SOP



• MIXED SIGNAL SOP DESIGN

• SOP ELECTRICAL TEST

• MIXED SIGNAL RELIABILITY

System On Package Miniaturization Of The Entire System

Mladen Božanić, Saurabh Sinha



System On Package Miniaturization Of The Entire System:

Introduction to System-on-package (SOP), 2008 System on Package SOP is an emerging microelectronic technology that places an entire system on a single chip size package Where systems used to be bulky boxes housing hundreds of components SOP saves interconnection time and heat generation

System on Package : Miniaturization of the Entire System Rao Tummala, 2008-04-15 System on Package SOP is an emerging microelectronic technology that places an entire system on a single chip size package Where systems used to be bulky boxes housing hundreds of components SOP saves interconnection time and heat generation by keep a full system with computing communications and consumer functions all in a single chip Written by the Georgia Tech developers of the technology this book explains the basic parameters design functions and manufacturing issues showing electronic designers how this radical new packaging technology can be used to solve pressing electronics design challenges

System on Package Rao Tummala, 2007-07-22 System on Package SOP is an emerging microelectronic technology that places an entire system on a single chip size package Where systems used to be bulky boxes housing hundreds of components SOP saves interconnection time and heat generation by keep a full system with computing communications and consumer functions all in a single chip Written by the Georgia Tech developers of the technology this book explains the basic parameters design functions and manufacturing issues showing electronic designers how this radical new packaging technology can be used to solve pressing electronics design challenges

Systems-Level Packaging for Millimeter-Wave Transceivers Mladen Božanić, Saurabh Sinha, 2019-03-26 This book provides a system level approach to making packaging decisions for millimeter wave transceivers In electronics the packaging forms a bridge between the integrated circuit or individual device and the rest of the electronic system encompassing all technologies between the two To be able to make well founded packaging decisions researchers need to understand a broad range of aspects including concepts of transmission bands antennas and propagation integrated and discrete package substrates materials and technologies interconnects passive and active components as well as the advantages and disadvantages of various packages and packaging approaches and package level modeling and simulation Packaging also needs to be considered in terms of system level testing as well as associated testing and production costs and reducing costs This peer reviewed work contributes to the extant scholarly literature by addressing the aforementioned concepts and applying them to the context of the millimeter wave regime and the unique opportunities that this transmission approach offers

Antenna-in-Package Technology and Applications Duixian Liu, Yueping Zhang, 2020-03-31 A comprehensive guide to antenna design manufacturing processes antenna integration and packaging Antenna in Package Technology and Applications contains an introduction to the history of AiP technology It explores antennas and packages thermal analysis and design as well as measurement setups and methods for AiP technology The authors well known experts on the topic explain why microstrip patch antennas are the most popular and describe the myriad constraints of packaging such as

electrical performance thermo mechanical reliability compactness manufacturability and cost The book includes information on how the choice of interconnects is governed by JEDEC for automatic assembly and describes low temperature co fired ceramic high density interconnects fan out wafer level packaging based AiP and 3D printing based AiP The book includes a detailed discussion of the surface laminar circuit based AiP designs for large scale mm wave phased arrays for 94 GHz imagers and 28 GHz 5G New Radios Additionally the book includes information on 3D AiP for sensor nodes near field wireless power transfer and IoT applications This important book Includes a brief history of antenna in package technology Describes package structures widely used in AiP such as ball grid array BGA and quad flat no leads QFN Explores the concepts materials and processes designs and verifications with special consideration for excellent electrical mechanical and thermal performance Written for students in electrical engineering professors researchers and RF engineers Antenna in Package Technology and Applications offers a guide to material selection for antennas and packages antenna design with manufacturing processes and packaging constraints antenna integration and packaging

Antenna-on-Chip: Design, Challenges, and Opportunities Hammad M. Cheema, Atif Shamim, Fatima Khalid, 2021-06-30 Antennas are essential part of every wireless communication system The increasing trend of applications in the radio frequency RF and millimeter wave frequency spectrum has reduced the antenna sizes to only a few millimeters which makes it practical for on chip implementations Integrated Circuit IC designers who have traditionally remained isolated from antenna design now need to understand its design process and trade offs This comprehensive resource addresses the challenges benefits and trade offs of on chip antenna implementation It presents practical design and integration considerations of the IC and antenna combination and how both ends of the system can be utilized in a complimentary way The book includes on chip antenna layout considerations layout for testability and various methods of their characterization A look at the future trends and utilization of on chip antennas for different applications concludes the book

Mobile Communication Networks: 5G and a Vision of 6G Mladen Božanić, Saurabh Sinha, 2021-02-15 This book contributes to the body of scholarly knowledge by exploring the main ideas of wireless networks of past present and future trends in the field of networking the capabilities of 5G and technologies that are potential enablers of 6G potential 6G applications and requirements as well as unique challenges and opportunities that 6G research is going to offer over the next decade It covers research topics such as communication via millimeter waves terahertz waves and visible light to enable faster speeds as well as research into achieving other basic requirements of 6G networks These include low end to end latency high energy efficiency coverage that is ubiquitous and always on integration of terrestrial wireless with non terrestrial networks network management that is made more effective by connected intelligence with machine learning capabilities as well as support for the evolution of old service classes and support for new ones

MicroSystem Based on SiP Technology Suny Li, 2022-05-28 This book is a comprehensive SiP design guide book It is divided into three parts concept and technology design and simulation project and

case for a total of 30 chapters In Part one the author proposes some new original concepts and thoughts such as Function Density Law Si3P and 4D integration Part one also covers the latest technology of SiP and Advanced Packaging Part two covers the latest SiP and Advanced Packaging design and simulation technologies such as wire bonding multi step cavity chip stacking 2 5D TSV 3D TSV RDL Fan In Fan Out Flip Chip Embedded Passive Embedded Chip RF design Rigid Flex design 4D SiP design Multi layout project and Team design as well as SI PI thermal simulation electrical verification and physical verification Based on a real design case part three introduces the design simulation and implementation methods of different types of SiP which has a important reference significance for the research and development of SiP projects This book comprehensively and deeply expounds the latest development design ideas and design methods of contemporary SiP technology from three aspects concept and technology design and simulation project and case Through the detailed introduction of new concepts design methods actual projects and cases this book describes the whole process of SiP products from the beginning of conception to the final realization and makes readers benefit from it

Power Amplifiers for the S-, C-, X- and Ku-bands Mladen Božanić, Saurabh Sinha, 2015-12-29 This book provides a detailed review of power amplifiers including classes and topologies rarely covered in books and supplies sufficient information to allow the reader to design an entire amplifier system and not just the power amplification stage A central aim is to furnish readers with ideas on how to simplify the design process for a preferred power amplifier stage by introducing software based routines in a programming language of their choice The book is in two parts the first focusing on power amplifier theory and the second on EDA concepts Readers will gain enough knowledge of RF and microwave transmission theory principles of active and passive device design and manufacturing and power amplifier design concepts to allow them to quickly create their own programs which will help to accelerate the transceiver design process All circuit designers facing the challenge of designing an RF or microwave power amplifier for frequencies from 2 to 18 GHz will find this book to be a valuable asset

Millimeter-Wave Integrated Circuits Mladen Božanić, Saurabh Sinha, 2020-03-16 This peer reviewed book explores the methodologies that are used for effective research design and innovation in the vast field of millimeter wave circuits and describes how these have to be modified to fit the uniqueness of high frequency nanoelectronics design Each chapter focuses on a specific research challenge related to either small form factors or higher operating frequencies The book first examines nanodevice scaling and the emerging electronic design automation tools that can be used in millimeter wave research as well as the singular challenges of combining deep submicron and millimeter wave design It also demonstrates the importance of considering in the millimeter wave context system level design leading to differing packaging options Further it presents integrated circuit design methodologies for all major transceiver blocks typically employed at millimeter wave frequencies as these methodologies are normally fundamentally different from the traditional design methodologies used in analogue and lower frequency electronics Lastly the book discusses the methodologies of millimeter wave research and design for extreme or

harsh environments rebooting electronics the additional opportunities for terahertz research and the main differences between the approaches taken in millimeter wave research and terahertz research

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