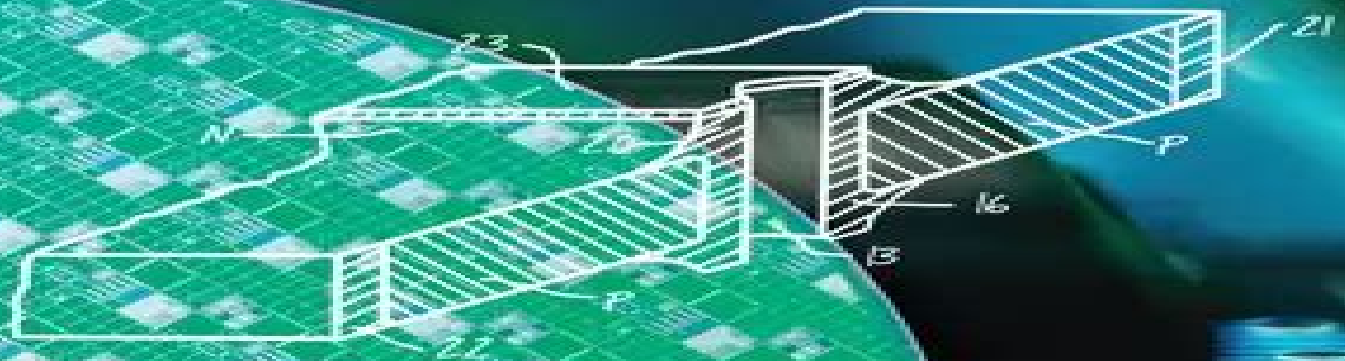


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Stresses arising in 3D TSV interconnects and in the surrounding materials due to thermal mismatch microstructure changes or process integration can lead to performance reduction reliability limiting degradation and failure of microelectronic products Understanding stress related phenomena in new materials used for 3D integration and packaging particularly using through silicon vias and microbumps is critical for future microelectronic products Management of mechanical stress is one of the key enablers for the successful implementation of 3D integrated circuits using through silicon vias TSVs The potential stress related impact of the 3D integration process on the device characteristics must be understood and shared and designers need a solution for managing stress The Proceedings summarize new research results and advances in basic understanding of stress induced phenomena in 3D IC integration Modelling and simulation capabilities as well as materials characterization are demonstrated to evaluate the effect of stress on product performance

Arbitrary Modeling of TSVs for 3D Integrated Circuits Khaled Salah,Yehea Ismail,Alaa El-Rouby,2014-08-21 This book presents a wide band and technology independent SPICE compatible RLC model for through silicon vias TSVs in 3D integrated circuits This model accounts for a variety of effects including skin effect depletion capacitance and nearby contact effects Readers will benefit from in depth coverage of concepts and technology such as 3D integration Macro modeling dimensional analysis and compact modeling as well as closed form equations for the through silicon via parasitics Concepts covered are demonstrated by using TSVs in applications such as a spiral inductor and inductive based communication system and bandpass filtering

High-Speed Interconnects in VLSI Design, Modeling, and Signal Integrity Dr. Bhaskar Gugulothu, The rapid advancement in VLSI Very Large Scale Integration technology has ushered in a new era of high performance systems where interconnects have become a critical bottleneck in determining speed power and reliability This textbook provides a comprehensive understanding of high speed interconnect design analytical and simulation based modeling techniques and signal integrity challenges in modern integrated circuits It is intended for graduate students researchers and industry professionals involved in IC design and signal integrity analysis

Interconnect Technologies for Integrated Circuits and Flexible Electronics Yash Agrawal,Kavicharan Mummaneni,P. Uma Sathyakam,2023-09-21 This contributed book provides a thorough understanding of the basics along with detailed state of the art emerging interconnect technologies for integrated circuit design and flexible electronics It focuses on the investigation of advanced on chip interconnects which match the current as well as future technology requirements The contents focus on different aspects of interconnects such as material physical characteristics parasitic extraction design structure modeling machine learning and neural network based models for interconnects signaling schemes varying signal integrity performance analysis variability reliability aspects associated electronic design automation tools The book also explores interconnect technologies for flexible electronic systems It also highlights the integration of sensors with stretchable interconnects to demonstrate the concept of a stretchable sensing network for wearable and flexible applications This book is a useful guide for those working in academia and industry to understand the

fundamentals and application of interconnect technologies

Processing, Materials, and Integration of Damascene

and 3D Interconnects J. C. Flake, 2010-04 This issue focuses on recent advances in damascene interconnects and 3D interconnects Three-Dimensional Integrated Circuit Design Vasilis F. Pavlidis, Ioannis Savidis, Eby G.

Friedman, 2017-07-04 Three Dimensional Integrated Circuit Design Second Edition expands the original with more than twice as much new content adding the latest developments in circuit models temperature considerations power management memory issues and heterogeneous integration 3 D IC experts Pavlidis Savidis and Friedman cover the full product development cycle throughout the book emphasizing not only physical design but also algorithms and system level considerations to increase speed while conserving energy A handy comprehensive reference or a practical design guide this book provides effective solutions to specific challenging problems concerning the design of three dimensional integrated circuits Expanded with new chapters and updates throughout based on the latest research in 3 D integration Manufacturing techniques for 3 D ICs with TSVs Electrical modeling and closed form expressions of through silicon vias Substrate noise coupling in heterogeneous 3 D ICs Design of 3 D ICs with inductive links Synchronization in 3 D ICs Variation effects on 3 D ICs Correlation of WID variations for intra tier buffers and wires Offers practical guidance on designing 3 D heterogeneous systems Provides power delivery of 3 D ICs Demonstrates the use of 3 D ICs within heterogeneous systems that include a variety of materials devices processors GPU CPU integration and more Provides experimental case studies in power delivery synchronization and thermal characterization Handbook of Silicon Based MEMS Materials and Technologies Markku Tilli, Mervi Paulasto-Kröckel, Matthias Petzold, Horst Theuss, Teruaki Motooka, Veikko Lindroos, 2020-04-17 Handbook of Silicon Based MEMS Materials and Technologies Third Edition is a comprehensive guide to MEMS materials technologies and manufacturing with a particular emphasis on silicon as the most important starting material used in MEMS The book explains the fundamentals properties mechanical electrostatic optical etc materials selection preparation modeling manufacturing processing system integration measurement and materials characterization techniques of MEMS structures The third edition of this book provides an important up to date overview of the current and emerging technologies in MEMS making it a key reference for MEMS professionals engineers and researchers alike and at the same time an essential education material for undergraduate and graduate students Provides comprehensive overview of leading edge MEMS manufacturing technologies through the supply chain from silicon ingot growth to device fabrication and integration with sensor actuator controlling circuits Explains the properties manufacturing processing measuring and modeling methods of MEMS structures Reviews the current and future options for hermetic encapsulation and introduces how to utilize wafer level packaging and 3D integration technologies for package cost reduction and performance improvements Geared towards practical applications presenting several modern MEMS devices including inertial sensors microphones pressure sensors and micromirrors

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