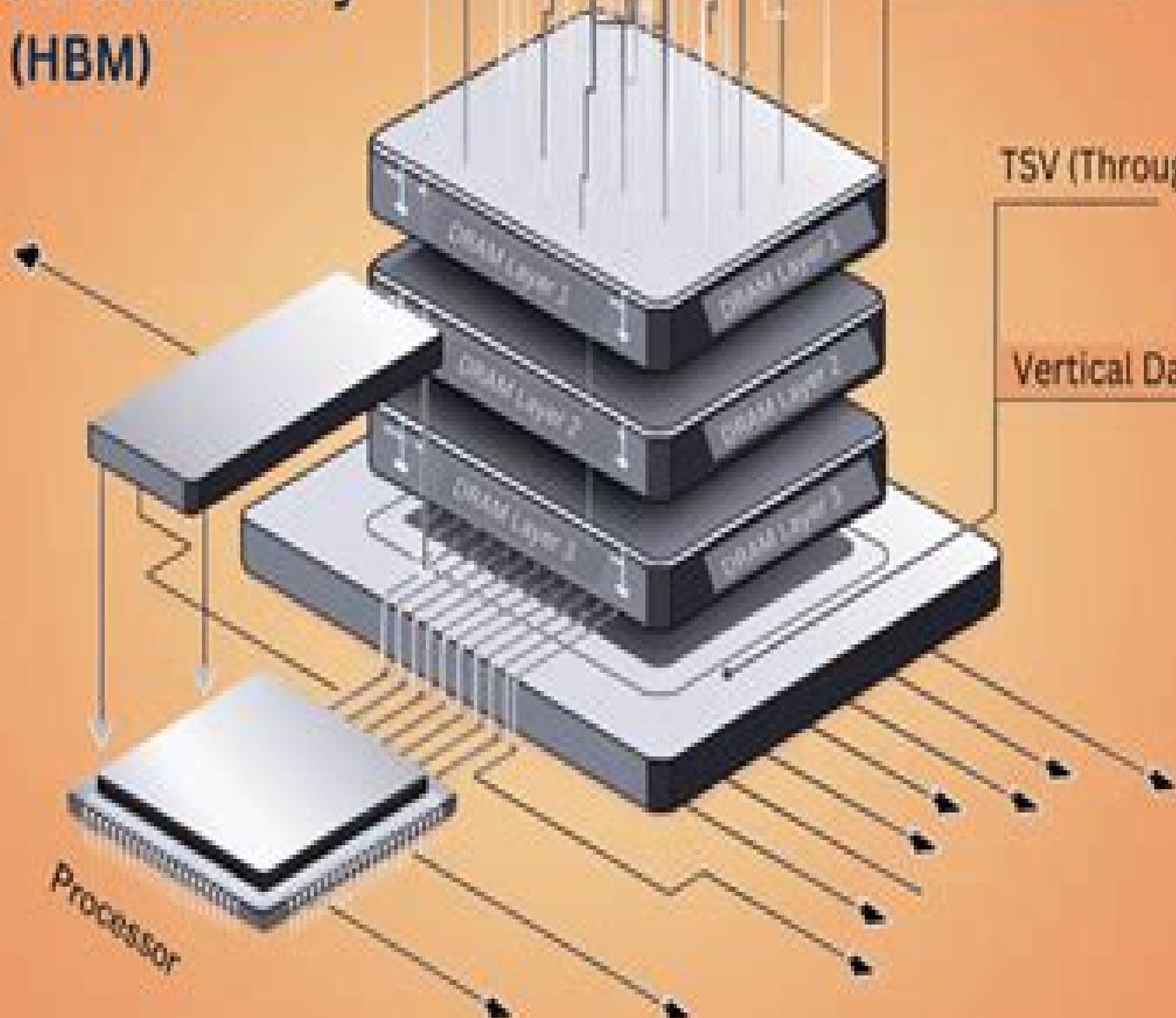


High Bandwidth Memory (HBM)



HBM STACK

TSV (Through-Silicon Via)

Vertical Data Flow

Processor

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Applied Reconfigurable Computing. Architectures, Tools, and Applications Francesca Palumbo,Georgios Keramidas,Nikolaos Voros,Pedro C. Diniz,2023-09-15 This book constitutes the proceedings of the 19th International Symposium on Applied Reconfigurable Computing ARC 2023 which was held in Cottbus Germany in September 2023 The 18 full papers presented in this volume were reviewed and selected from numerous submissions The proceedings also contain 4 short PhD papers The contributions were organized in topical sections as follows Design methods and tools applications architectures special session near and in memory computing and PhD forum papers

Semiconductor Memories and Systems Andrea Redaelli,Fabio Pellizzer,2022-06-07 Semiconductor Memories and Systems provides a comprehensive overview of the current state of semiconductor memory at the technology and system levels After an introduction on market trends and memory applications the book focuses on mainstream technologies illustrating their current status challenges and opportunities with special attention paid to scalability paths Technologies discussed include static random access memory SRAM dynamic random access memory DRAM non volatile memory NVM and NAND flash memory Embedded memory and requirements and system level needs for storage class memory are also addressed Each chapter covers physical operating mechanisms fabrication technologies and the main challenges to scalability Finally the work reviews the emerging trends for storage class memory mainly focusing on the advantages and opportunities of phase change based memory technologies Features contributions from experts from leading companies in semiconductor memory Discusses physical operating mechanisms fabrication technologies and paths to scalability for current and emerging semiconductor memories Reviews primary memory technologies including SRAM DRAM NVM and NAND flash memory Includes emerging storage class memory technologies such as phase change memory

3D Interconnect Architectures for Heterogeneous Technologies Lennart Bamberg,Jan Moritz Joseph,Alberto García-Ortiz,Thilo Pionteck,2022-06-27 This book describes the first comprehensive approach to the optimization of interconnect architectures in 3D systems on chips SoCs specially addressing the challenges and opportunities arising from heterogeneous integration Readers learn about the physical implications of using heterogeneous 3D technologies for SoC integration while also learning to maximize the 3D technology gains through a physical effect aware architecture design The book provides a deep theoretical background covering all abstraction levels needed to research and architect tomorrow s 3D integrated circuits an extensive set of optimization methods for power performance area and yield as well as an open source optimization and simulation framework for fast exploration of novel designs

Proceedings of the 2025 2nd International Conference on Electrical Engineering and Intelligent Control (EEIC 2025) Ata Jahangir Moshayedi,2025-11-20 This is an open access book The organizing committee is honored to extend a heartfelt welcome to the 2nd International Conference on Electrical Engineering and Intelligent Control EEIC 2025 Building on the resounding success of its inaugural edition in Singapore 2024 as part of the Conference on Intelligent Collaboration

CIC series this year's conference will convene in Auckland New Zealand reaffirming its role as a global nexus uniting leading researchers scholars and industry pioneers in electrical engineering and intelligent control Auckland's dynamic fusion of world class academia a thriving innovation ecosystem and a steadfast commitment to sustainability mirrors EEIC's vision for Collaborative Intelligence Ethical Innovation and Resilient Systems By hosting EEIC 2025 here we aim to harness the city's unique energy to address emerging challenges and drive technological progress with ethical foresight Under this guiding theme EEIC 2025 will catalyze cutting edge dialogue showcase transformative advancements and inspire collaborative solutions to shape the future of intelligent systems Through fostering synergy across disciplines we aspire to accelerate breakthroughs in both theoretical frameworks and real world applications ensuring resilient and equitable progress in these critical fields

3D Integration in VLSI Circuits Katsuyuki Sakuma, 2018-04-17 Currently the term 3D integration includes a wide variety of different integration methods such as 2.5 dimensional 2.5D interposer based integration 3D integrated circuits 3D ICs 3D systems in package SiP 3D heterogeneous integration and monolithic 3D ICs The goal of this book is to provide readers with an understanding of the latest challenges and issues in 3D integration TSVs are not the only technology element needed for 3D integration There are numerous other key enabling technologies required for 3D integration and the speed of the development in this emerging field is very rapid To provide readers with state of the art information on 3D integration research and technology developments each chapter has been contributed by some of the world's leading scientists and experts from academia research institutes and industry from around the globe Covers chip wafer level 3D integration technology memory stacking reconfigurable 3D and monolithic 3D IC Discusses the use of silicon interposer and organic interposer Presents architecture design and technology implementations for 3D FPGA integration Describes oxide bonding Cu SiO₂ hybrid bonding adhesive bonding and solder bonding Addresses the issue of thermal dissipation in 3D integration

Electronic Packaging Science and Technology King-Ning Tu, Chih Chen, Hung-Ming Chen, 2021-12-29 Must have reference on electronic packaging technology The electronics industry is shifting towards system packaging technology due to the need for higher chip circuit density without increasing production costs Electronic packaging or circuit integration is seen as a necessary strategy to achieve a performance growth of electronic circuitry in next generation electronics With the implementation of novel materials with specific and tunable electrical and magnetic properties electronic packaging is highly attractive as a solution to achieve denser levels of circuit integration The first part of the book gives an overview of electronic packaging and provides the reader with the fundamentals of the most important packaging techniques such as wire bonding tap automatic bonding flip chip solder joint bonding microbump bonding and low temperature direct Cu to Cu bonding Part two consists of concepts of electronic circuit design and its role in low power devices biomedical devices and circuit integration The last part of the book contains topics based on the science of electronic packaging and the reliability of packaging technology

75th Anniversary of the Transistor Arokia Nathan, Samar K.

Saha, Ravi M. Todi, 2023-07-11 75th Anniversary of the Transistor 75th anniversary commemorative volume reflecting the transistor's development since inception to current state of the art 75th Anniversary of the Transistor is a commemorative anniversary volume to celebrate the invention of the transistor The anniversary volume was conceived by the IEEE Electron Devices Society EDS to provide comprehensive yet compact coverage of the historical perspectives underlying the invention of the transistor and its subsequent evolution into a multitude of integration and manufacturing technologies and applications The book reflects the transistor's development since inception to the current state of the art that continues to enable scaling to very large scale integrated circuits of higher functionality and speed The stages in this evolution covered are in chronological order to reflect historical developments Narratives and experiences are provided by a select number of venerated industry and academic leaders and retired veterans of the semiconductor industry 75th Anniversary of the Transistor highlights Historical perspectives of the state of the art pre solid state transistor world pre 1947 leading to the invention of the transistor Invention of the bipolar junction transistor BJT and analytical formulations by Shockley 1948 and their impact on the semiconductor industry Large scale integration Moore's Law 1965 and transistor scaling 1974 and MOS LSI including flash memories SRAMs DRAMs 1963 and the Toshiba NAND flash memory 1989 Image sensors 1986 including charge coupled devices and related microsensor applications With comprehensive yet succinct and accessible coverage of one of the cornerstones of modern technology 75th Anniversary of the Transistor is an essential reference for engineers researchers and undergraduate students looking for historical perspective from leaders in the field

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

High-Bandwidth Memory Interface Chulwoo Kim,Hyun-Woo

Lee,Junyoung Song,2013-10-27 This book provides an overview of recent advances in memory interface design at both the architecture and circuit levels Coverage includes signal integrity and testing TSV interface high speed serial interface including equalization ODT pre emphasis wide I O interface including crosstalk skew cancellation and clock generation and distribution Trends for further bandwidth enhancement are also covered

Semiconductor Memory Devices and Circuits

Shimeng Yu,2022-04-19 This book covers semiconductor memory technologies from device bit cell structures to memory array design with an emphasis on recent industry scaling trends and cutting edge technologies The first part of the book discusses the mainstream semiconductor memory technologies The second part of the book discusses the emerging memory candidates that may have the potential to change the memory hierarchy and surveys new applications of memory technologies for machine deep learning applications This book is intended for graduate students in electrical and computer engineering programs and researchers or industry professionals in semiconductors and microelectronics Explains the design of basic memory bit cells including 6 transistor SRAM 1 transistor 1 capacitor DRAM and floating gate charge trap FLASH transistor Examines the design of the peripheral circuits including the sense amplifier and array level organization for the memory array Examines industry trends of memory technologies such as FinFET based SRAM High Bandwidth Memory HBM 3D NAND Flash and 3D X point array Discusses the prospects and challenges of emerging memory technologies such as PCM RRAM STT MRAM SOT MRAM and FeRAM FeFET Explores the new applications such as in memory computing for AI hardware acceleration

High Bandwidth Memory (HBM) DRAM JEDEC, Solid State Technology Association,2015

Memory Technology, Design and Testing, 1997: IEEE International Workshop on (MTDT '97 IEEE Computer Society Staff,IEEE International Workshop on Memory Technology, Design and Testing,1997

In-/Near-Memory Computing Daichi Fujiki,Xiaowei Wang,Arun Subramaniyan,Reetuparna Das,2022-05-31 This book provides a structured introduction of the key concepts and techniques that enable in near memory computing For decades processing in memory or near memory computing has been attracting growing interest due to its potential to break the memory wall Near memory computing moves compute logic near the memory and thereby reduces data movement Recent work has also shown that certain memories can morph themselves into compute units by exploiting the physical properties of the memory cells enabling in situ computing in the memory array While in and near memory computing can circumvent overheads related to data movement it comes at the cost of restricted flexibility of data representation and computation design challenges of compute capable memories and difficulty in system and software integration Therefore wide deployment of in near memory computing cannot be accomplished without techniques that enable efficient mapping of data intensive applications to such devices without sacrificing accuracy or increasing hardware costs excessively This book describes various memory substrates amenable to in

and near memory computing architectural approaches for designing efficient and reliable computing devices and opportunities for in near memory acceleration of different classes of applications *Proceedings of the 2002 IEEE International Workshop on Memory Technology, Design and Testing* IEEE International Workshop on Memory Technology, Design and Testing, 2002 Memory Technology, Design and Testing, 1997: IEEE International Workshop on (MTDT '97). IEEE International Workshop on Memory Technology, Design and Testing, 1997 **Memory Technology, Design and Testing (MTDT '98), 1998 IEEE International Workshop** IEEE Computer Society Staff, 1998 2005 IEEE International Workshop on Memory Technology, Design and Testing ,2005 *MTDT 2004* IEEE International Workshop on Memory Technology, Design and Testing, 2004 *Records of the IEEE International Workshop on Memory Technology, Design and Testing* International Workshop on Memory Technology, Design and Testing, **Memory Technology, Design and Testing (MTDT '98), 1998 IEEE International Workshop** IEEE Computer Society, IEEE Computer Society Staff, 1998-09 This text on computer hardware design and technology should appeal to computing professionals and students Contents include architectures fault modeling and manufacturing tools low power test and sensing

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