

Edited by Philip Garrou,
Christopher Bower, and Peter Ramm

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Handbook of 3D Integration

Volume 1 and 2

Technology and Applications of 3D Integrated Circuits



Handbook Of 3d Integration Technology And Applications Of 3d Integrated Circuits

Krzysztof Iniewski



Handbook Of 3d Integration Technology And Applications Of 3d Integrated Circuits:

Handbook of 3D Integration, Volume 1 Philip Garrou, Christopher Bower, Peter Ramm, 2011-09-22 The first encompassing treatise of this new but very important field puts the known physical limitations for classic 2D electronics into perspective with the requirements for further electronics developments and market necessities This two volume handbook presents 3D solutions to the feature density problem addressing all important issues such as wafer processing die bonding packaging technology and thermal aspects It begins with an introductory part which defines necessary goals existing issues and relates 3D integration to the semiconductor roadmap of the industry Before going on to cover processing technology and 3D structure fabrication strategies in detail This is followed by fields of application and a look at the future of 3D integration The contributions come from key players in the field from both academia and industry including such companies as Lincoln Labs Fraunhofer RPI ASET IMEC CEA LETI IBM and Renesas

Handbook of 3D Integration, Volume 3 Philip Garrou, Mitsumasa Koyanagi, Peter Ramm, 2014-07-21 Edited by key figures in 3D integration and written by top authors from high tech companies and renowned research institutions this book covers the intricate details of 3D process technology As such the main focus is on silicon via formation bonding and debonding thinning via reveal and backside processing both from a technological and a materials science perspective The last part of the book is concerned with assessing and enhancing the reliability of the 3D integrated devices which is a prerequisite for the large scale implementation of this emerging technology Invaluable reading for materials scientists semiconductor physicists and those working in the semiconductor industry as well as IT and electrical engineers

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Handbook of 3D Integration, Volume 4 Paul D. Franzon, Erik Jan Marinissen, Muhannad S. Bakir, 2019-01-25 This fourth volume of the landmark handbook focuses on the design testing and thermal management of 3D integrated circuits both from a technological and materials science perspective Edited and authored by key contributors from top research institutions and high tech companies the first part of the book provides an overview of the latest developments in 3D chip design including challenges and opportunities The second part focuses on the

test methods used to assess the quality and reliability of the 3D integrated circuits while the third and final part deals with thermal management and advanced cooling technologies and their integration

Design of 3D Integrated Circuits and Systems Rohit Sharma, 2018-09-03 Three dimensional 3D integration of microsystems and subsystems has become essential to the future of semiconductor technology development 3D integration requires a greater understanding of several interconnected systems stacked over each other While this vertical growth profoundly increases the system functionality it also exponentially increases the design complexity Design of 3D Integrated Circuits and Systems tackles all aspects of 3D integration including 3D circuit and system design new processes and simulation techniques alternative communication schemes for 3D circuits and systems application of novel materials for 3D systems and the thermal challenges to restrict power dissipation and improve performance of 3D systems Containing contributions from experts in industry as well as academia this authoritative text Illustrates different 3D integration approaches such as die to die die to wafer and wafer to wafer Discusses the use of interposer technology and the role of Through Silicon Vias TSVs Presents the latest improvements in three major fields of thermal management for multiprocessor systems on chip MPSoCs Explores ThruChip Interface TCI NAND flash memory stacking and emerging applications Describes large scale integration testing and state of the art low power testing solutions Complete with experimental results of chip level 3D integration schemes tested at IBM and case studies on advanced complementary metal oxide semiconductor CMOS integration for 3D integrated circuits ICs Design of 3D Integrated Circuits and Systems is a practical reference that not only covers a wealth of design issues encountered in 3D integration but also demonstrates their impact on the efficiency of 3D systems

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

Physical Design for 3D Integrated Circuits Aida Todri-Sanial, Chuan Seng Tan, 2017-12-19 Physical Design for 3D Integrated Circuits reveals how to effectively and optimally design 3D integrated circuits ICs It also analyzes the design tools for 3D circuits while exploiting the benefits of 3D technology The book begins by offering an overview of physical design challenges with respect to conventional 2D circuits and then each chapter delivers an in depth look at a specific physical design topic This comprehensive reference Contains extensive coverage of the physical design of 2 5D 3D ICs and monolithic 3D ICs Supplies state of the art solutions for challenges unique to 3D circuit design Features contributions from renowned experts in their respective fields Physical Design for 3D Integrated Circuits provides a single convenient source of cutting edge information for those pursuing 2 5D 3D technology

An Engineer's Guide to Automated Testing of High-Speed Interfaces, Second Edition Jose Moreira, Hubert Werkmann, 2016-04-30 This second edition of An Engineer's Guide to Automated Testing of High Speed Interfaces provides updates to reflect current state of the art high speed digital testing with automated test equipment technology ATE Featuring clear examples this one stop reference covers all critical aspects of automated testing including an introduction to high speed digital basics a discussion of industry

standards ATE and bench instrumentation for digital applications and test and measurement techniques for characterization and production environment Engineers learn how to apply automated test equipment for testing high speed digital I O interfaces and gain a better understanding of PCI Express 4 100Gb Ethernet and MIPI while exploring the correlation between phase noise and jitter This updated resource provides expanded material on 28 32 Gbps NRZ testing and wireless testing that are becoming increasingly more pertinent for future applications This book explores the current trend of merging high speed digital testing within the fields of photonic and wireless testing *Handbook of 3D Integration* John Wiley & Sons, Ricky Allen, 2014

Modeling and Design of Electromagnetic Compatibility for High-Speed Printed Circuit Boards and Packaging Xing-Chang Wei, 2017-09-19 Modeling and Design of Electromagnetic Compatibility for High Speed Printed Circuit Boards and Packaging presents the electromagnetic modelling and design of three major electromagnetic compatibility EMC issues related to the high speed printed circuit board PCB and electronic packages signal integrity SI power integrity PI and electromagnetic interference EMI The emphasis is put on two essential passive components of PCBs and packages the power distribution network and the signal distribution network This book includes two parts Part one talks about the field circuit hybrid methods used for the EMC modeling including the modal method the integral equation method the cylindrical wave expansion method and the de embedding method Part two illustrates EMC design methods and explores the applications of novel metamaterials and two dimensional materials on traditional EMC problems This book is designed to enhance worthwhile electromagnetic theory and mathematical methods for practical engineers and to train students with advanced EMC applications

3D IC Stacking Technology Banqiu Wu, Ajay Kumar, Sesh Ramaswami, 2011-07-07 The latest advances in three dimensional integrated circuit stacking technology With a focus on industrial applications 3D IC Stacking Technology offers comprehensive coverage of design test and fabrication processing methods for three dimensional device integration Each chapter in this authoritative guide is written by industry experts and details a separate fabrication step Future industry applications and cutting edge design potential are also discussed This is an essential resource for semiconductor engineers and portable device designers 3D IC Stacking Technology covers High density through silicon stacking TSS technology Practical design ecosystem for heterogeneous 3D IC products Design automation and TCAD tool solutions for through silicon via TSV based 3D IC stack Process integration for TSV manufacturing High aspect ratio silicon etch for TSV Dielectric deposition for TSV Barrier and seed deposition Copper electrodeposition for TSV Chemical mechanical polishing for TSV applications Temporary and permanent bonding Assembly and test aspects of TSV technology

Circuits at the Nanoscale Krzysztof Iniewski, 2018-10-08 Circuits for Emerging Technologies Beyond CMOS New exciting opportunities are abounding in the field of body area networks wireless communications data networking and optical imaging In response to these developments top notch international experts in industry and academia present Circuits at the Nanoscale Communications Imaging and Sensing This volume unique in both its scope and its focus addresses the state of

the art in integrated circuit design in the context of emerging systems A must for anyone serious about circuit design for future technologies this book discusses emerging materials that can take system performance beyond standard CMOS These include Silicon on Insulator SOI Silicon Germanium SiGe and Indium Phosphide InP Three dimensional CMOS integration and co integration with Microelectromechanical MEMS technology and radiation sensors are described as well Topics in the book are divided into comprehensive sections on emerging design techniques mixed signal CMOS circuits circuits for communications and circuits for imaging and sensing Dr Krzysztof Iniewski is a director at CMOS Emerging Technologies Inc a consulting company in Vancouver British Columbia His current research interests are in VLSI circuits for medical applications He has published over 100 research papers in international journals and conferences and he holds 18 international patents granted in the United States Canada France Germany and Japan In this volume he has assembled the contributions of over 60 world reknown experts who are at the top of their field in the world of circuit design advancing the bank of knowledge for all who work in this exciting and burgeoning area

Materials and Technologies for 3-D Integration Fred Roozeboom,2009 **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 **CERN.** ,2009 *Design of 3D Integrated Circuits and Systems* Rohit Sharma,2018-09-03 Three dimensional 3D integration of microsystems and subsystems has become essential to the future of semiconductor technology development 3D integration requires a greater understanding of several interconnected systems stacked over each other While this vertical growth profoundly increases the system functionality it also exponentially increases the design complexity *Design of 3D Integrated Circuits and Systems* tackles all aspects of 3D integration including 3D circuit and system design new processes and simulation techniques alternative communication schemes for 3D circuits and systems application of novel materials for 3D systems and the thermal challenges to restrict power dissipation and improve performance of 3D systems Containing contributions from experts in industry as well as academia this authoritative text

Illustrates different 3D integration approaches such as die to die die to wafer and wafer to wafer Discusses the use of interposer technology and the role of Through Silicon Vias TSVs Presents the latest improvements in three major fields of thermal management for multiprocessor systems on chip MPSoCs Explores ThruChip Interface TCI NAND flash memory stacking and emerging applications Describes large scale integration testing and state of the art low power testing solutions Complete with experimental results of chip level 3D integration schemes tested at IBM and case studies on advanced complementary metal oxide semiconductor CMOS integration for 3D integrated circuits ICs Design of 3D Integrated Circuits and Systems is a practical reference that not only covers a wealth of design issues encountered in 3D integration but also demonstrates their impact on the efficiency of 3D systems **3D Integration in VLSI Circuits** Katsuyuki Sakuma, 2018

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 **3D IC Stacking Technology** Banqiu Wu, Ajay Kumar, Sesh Ramaswami, 2011-10-14 The latest advances in three dimensional integrated circuit stacking technology With a focus on industrial applications 3D IC Stacking Technology offers comprehensive coverage of design test and fabrication processing methods for three dimensional device integration Each chapter in this authoritative guide is written by industry experts and details a separate fabrication step Future industry applications and cutting edge design potential are also discussed This is an essential resource for semiconductor engineers and portable device designers 3D IC Stacking Technology covers High density through silicon stacking TSS technology Practical design ecosystem for heterogeneous 3D IC products Design automation and TCAD tool solutions for through silicon via TSV based 3D IC stack Process integration for TSV manufacturing High aspect ratio silicon etch for TSV Dielectric deposition for TSV Barrier and seed deposition Copper electrodeposition for TSV Chemical mechanical polishing for TSV applications Temporary and permanent bonding Assembly and test aspects of TSV technology

Through-Silicon Vias for 3D Integration John H. Lau, 2012-08-05 A comprehensive guide to TSV and other enabling technologies for 3D integration Written by an expert with more than 30 years of experience in the electronics industry Through Silicon Vias for 3D Integration provides cutting edge information on TSV wafer thinning thin wafer handling microbumping and assembly and thermal management technologies Applications to highperformance high density low power consumption wide bandwidth and small form factor electronic products are discussed This book offers a timely summary of

progress in all aspects of this fascinating field for professionals active in 3D integration research and development those who wish to master 3D integration problem solving methods and anyone in need of a low power wide bandwidth design and high yield manufacturing process for interconnect systems Coverage includes Nanotechnology and 3D integration for the semiconductor industry TSV etching dielectric barrier and seed layer deposition Cu plating CMP and Cu revealing TSVs mechanical thermal and electrical behaviors Thin wafer strength measurement Wafer thinning and thin wafer handling Microbumping assembly and reliability Microbump electromigration Transient liquid phase bonding C2C C2W and W2W 2 5D IC integration with interposers 3D IC integration with interposers Thermal management of 3D IC integration 3D IC packaging

Advances In 3d Integrated Circuits And Systems Hao Yu, Chuan Seng Tan, 2015-08-28 3D integration is an emerging technology for the design of many core microprocessors and memory integration This book Advances in 3D Integrated Circuits and Systems is written to help readers understand 3D integrated circuits in three stages device basics system level management and real designs Contents presented in this book include fabrication techniques for 3D TSV and 2 5D TSI device modeling physical designs thermal power and I O management and 3D designs of sensors I Os multi core processors and memory Advanced undergraduates graduate students researchers and engineers may find this text useful for understanding the many challenges faced in the development and building of 3D integrated circuits and systems

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