



# *Automated Optical Inspection for Industry: Theory, Technology, and Applications II*

Shenghua Ye  
Chair/Editor

16–19 September 1998  
Beijing, China

Sponsored by:

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Volume 3558

# Multilevel Interconnect Technology Ii Spie Proceedings Series

**Barbara Vasquez, Hisao Kawasaki**



## **Multilevel Interconnect Technology II Spie Proceedings Series:**

**Multilevel Interconnect Technology**, 1999 *Multilevel Interconnect Technology II* Mart Graef, Divyesh N. Patel, 1998-01-01 **Directory of Published Proceedings**, 2001 **Multilevel Interconnect Technology** Divyesh N. Patel, Mart Graef, 1997 **Silicon Nitride, Silicon Dioxide, and Emerging Dielectrics 9** R. Ekwah Sah, 2007 This issue of ECS Transactions contains the papers presented in the symposium on Silicon Nitride Silicon Dioxide Thin Insulating Films and Emerging Dielectrics held May 6-11 2007 in Chicago. Papers were presented on deposition, characterization, and applications of the dielectrics including high and low k dielectrics as well as interface states, device characterization, reliability, and modeling. *Subject Guide to Books in Print*, 1991 **National Telesystems Conference Proceedings**, 1992 **ULSI Process Integration** Cor L. Claeys, 1999 *The Cumulative Book Index*, 1999 **International Aerospace Abstracts**, 1999 *Micro-optics, VCSELs, and Photonic Interconnects*, 2004 *Gold Bulletin*, 2002 **NTC-92, National Telesystems Conference, May 19-20, 1992, George Washington University, Virginia Campus, Washington, D.C.**, 1992 **American Book Publishing Record**, 2006 *IEEE/CPMT International Electronic Manufacturing Technology Symposium : [proceedings]*, 1995 **Microelectronics Manufacturability, Yield, and Reliability** Barbara Vasquez, Hisao Kawasaki, 1994 **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. *IEICE Transactions on Electronics*, 1999 *Proceedings*, 2003 *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

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web 8 2 1 1 hexagonal nut the upper corners of this nut are rounded off or chamfered the chamfering is generally conical the angle of chamfer is 30 or 45 with the base of the nut due to chamfering an arc is formed on each vertical face and a circle is

formed on the top surface of the nut

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web the formula used to calculate the bolt area is as follows bolt area  $ba = 0.7854 d^2 n$  in this formula  $d$  represents the bolt diameter in inches and  $n$  represents the number of threads per inch the bolt area is calculated by subtracting 0.9734 divided by the threads per inch from the bolt diameter and then squaring the

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web proximate joint and bolt stiffness is outlined in paragraph 5 0 the slope of the force angle of turn relationship can be represented by the following equation where  $k_b$  bolt spring rate lb/in  $k_c$  joint spring rate lb/in

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