Papier 13426-208 Selective probing method using SEM for inline electrical inspection

of semiconductor devices



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Fig. 1: Device almostryment process with before It tested

Selective probing method

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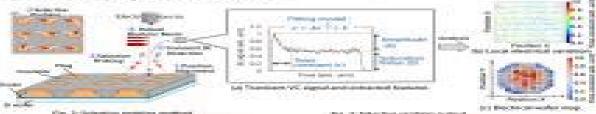
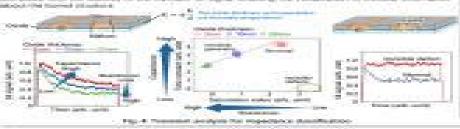


Fig. 16: Sebective personny budged

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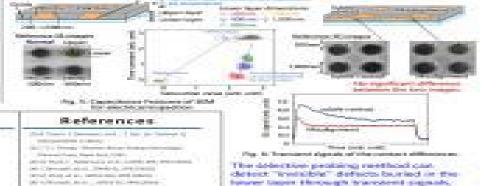
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Paper 13426-208

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P. Hariharan

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individual transistors on a single chip has doubled approximately every three years As the number of devices has grown the critical dimension of the smallest feature such as a gate length which is related to the transport length defining the channel has consequently declined The reduction of this design rule proceeds approximately by a factor of 1 4 each generation which means we will be using 0 1 0 15 lm rules for the 4 Gb chips a decade from now If we continue this extrapolation current technology will require 30 nm design rules and a cell 3 2 size **Subject Guide to Books in Print**, 1996 Interferometry, 2e P. Hariharan, 2003-10-20 When the first edition of Optical Interferometry was published interferometry was regarded as a rather esoteric method of making measurements largely confined to the laboratory Today however besides its use in several fields of research it has applications in fields as diverse as measurement of length and velocity sensors for rotation acceleration vibration and electrical and magnetic fields as well as in microscopy and nanotechnology Most topics are discussed first at a level accessible to anyone with a basic knowledge of physical optics then a more detailed treatment of the topic is undertaken and finally each topic is supplemented by a reference list of more than 1000 selected original publications in total Historical development of interferometry The laser as a light source Two beam interference Techniques for frequency stabilization Coherence Electronic phase measurements Multiple beam interference Quantum effects in optical interference Extensive coverage of the applications of interferometry such as measurements of length optical testing interference microscopy interference spectroscopy Fourier transform spectroscopy interferometric sensors nonlinear interferometers stellar interferometry and studies of space time and gravitation Scientific and Technical Aerospace **Iournal** of the Reports, 1978 **IEICE Transactions on Electronics** ,2005 Paperbound Books in Print, 1991 Physical Society of Japan ,1991 **Semiconductor Devices** Krishan Lal, 1996 **Optical Engineering** ,1991 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology <u>Index of Conference Proceedings</u> British Library. Document Supply **Books in Print Supplement** ,2002 Centre, 2003

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