Introduction To Semiconductor Manufacturing Technology

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this textbook contains all the materials that an engineer needs to know to start a career in the semiconductor industry it also provides readers with essential background information for semiconductor research it is written by a professional who has been working in the field for over two decades and teaching the material to university students for the past 15 years it includes process knowledge from raw material preparation to the passivation of chips in a modular format

retaining the comprehensive and in depth approach that cemented the bestselling first edition s place as a standard reference in the field the handbook of semiconductor manufacturing technology second edition features new and updated material that keeps it at the vanguard of today s most dynamic and rapidly growing

field iconic experts robert doering and yoshio nishi have again assembled a team of the world s leading specialists in every area of semiconductor manufacturing to provide the most reliable authoritative and industry leading information available stay current with the latest technologies in addition to updates to nearly every existing chapter this edition features five entirely new contributions on silicon on insulator soi materials and devices supercritical co2 in semiconductor cleaning low dielectrics atomic layer deposition damascene copper electroplating effects of terrestrial radiation on integrated circuits ics reflecting rapid progress in many areas several chapters were heavily revised and updated and in some cases rewritten to reflect rapid advances in such areas as interconnect technologies gate dielectrics photomask fabrication ic packaging and 300 mm wafer fabrication while no book can be up to the minute with the advances in the semiconductor field the handbook of semiconductor manufacturing technology keeps the most important data methods tools and techniques close at hand

for courses in semiconductor manufacturing technology ic fabrication technology and devices conventional flow this up to date text on semiconductor manufacturing processes takes into consideration the rapid development of the industry s technology it thoroughly describes the complicated and new ic chip fabrication processes in detail with minimum mathematics physics and chemistry advanced technologies are covered along with older ones to assist students in understanding the development processes from a historic point of view

a practical guide to semiconductor manufacturing from processcontrol to yield modeling and experimental design fundamentals of semiconductor manufacturing and process controlcovers all issues involved in manufacturing microelectronic devicesand circuits including fabrication sequences process control experimental design process modeling yield modeling and cim camsystems readers are introduced to both the theory and

practice ofall basic manufacturing concepts following an overview of manufacturing and technology the textexplores process monitoring methods including those that focus onproduct wafers and those that focus on the equipment used toproduce wafers next the text sets forth some fundamentals ofstatistics and yield modeling which set the foundation for adetailed discussion of how statistical process control is used toanalyze quality and improve yields the discussion of statistical experimental design offers readers apowerful approach for systematically varying controllable processconditions and determining their impact on output parameters thatmeasure quality the authors introduce process modeling concepts including several advanced process control topics such asrun by run supervisory control and process and equipmentdiagnosis critical coverage includes the following combines process control and semiconductor manufacturing unique treatment of system and software technology and managementof overall manufacturing systems chapters include case studies sample problems and suggestedexercises instructor support includes electronic copies of the figures andan instructor s manual graduate level students and industrial practitioners will benefitfrom the detailed exami nation of how electronic materials andsupplies are converted into finished integrated circuits andelectronic products in a high volume manufacturingenvironment an instructor s manual presenting detailed solutions to all theproblems in the book is available from the wiley editorialdepartment an instructor support ftp site is also available

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semiconductor industry and an in depth discussion of ic chip fabrication technology the text focuses on current fabrication technologies but older technologies are discussed for historical context

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