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Page 9/46

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Process for Minimal Fab *From*

Sand to Silicon: the Making of a

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Step by step **Product overview**

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about Ceramics □□□□ **How**

Photolithography works | Part

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1/6 – Introduction Transistors, How do they work ?

~~Introduction to Manufacturing
Process Technology~~ *Introduction To
Semiconductor Manufacturing
Technology*

Process technology: The specific
design rules and manufacturing

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Manufacturing Technology
process for a semiconductor; also known as technology node, process node, or just node

System-on-Chip (SOC): An IC that combines many components of a computer or other electronic system on the same chip

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AMD*

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describes the complicated
processes with minimal
mathematics, chemistry, and

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physics; it covers advanced
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Semiconductor Manufacturing
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Page 16/46

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semiconductor, manufacturing,
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Manufacturing Technology*
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Technology Chapter 1, Technology

Introduction. Hong Xiao, Ph. D.

hxiao89_at_hotmail.com; 2

Objective. After taking this course, you will able to ; Use common semiconductor terminology ; Describe a basic IC fabrication sequence ; Briefly

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Manufacturing Technology
explain each process step ; Relate
your job or products to
semiconductor manufacturing
process; 3 Topics. Introduction ;
IC Device and Design ;
Semiconductor Manufacturing
Processes

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*Introduction to Semiconductor
Manufacturing Technology ...*

Introduction to Semiconductor
Manufacturing Technology (2nd
Edition) IC chip manufacturing
processes, such as
photolithography, etch, CVD, PVD,
CMP, ion implantation, RTP,

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Manufacturing Technology, inspection, and metrology, are complex methods that draw upon many disciplines. This book thoroughly describes the complicated processes with minimal mathematics, chemistry, and physics.

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semiconductor industry is
developing rapidly with new
technology introduced almost on
a daily basis. The device feature

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size is shrinking continuously and the number of transistors on an integrated circuit (IC) chip is increasing rapidly, as predicted by Moore's law.

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Page 24/46

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Contents ... Chapter 2

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Introduction to Integrated
Manufacturing Technology

Circuit Fabrication 23 2.1

Introduction 23 2.2 Yield 25 2.2.1

Definition of yield 25

*Introduction to semiconductor
manufacturing technology*

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Manufacturing Technology,
Second Edition thoroughly
describes the complicated
processes with minimal
mathematics, chemistry, and
physics; it covers advanced
concepts while keeping the
contents accessible to readers

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Manufacturing Technology
without advanced degrees.

Designed as a textbook for college students, this book provides a realistic picture of the semiconductor industry and an in-depth discussion of IC chip fabrication technology.

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Manufacturing Technology ...*

Chapter 1 Introduction to the
Semiconductor Industry

Development of an Industry • The
roots of the electronic industry
are based on the vacuum tube
and early use of silicon for signal

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transmission prior to World War II. The first electronic computer, the ENIAC, was developed at the University of Pennsylvania during World War II.

*Semiconductor Manufacturing
Technology Instructor's Manual*

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The semiconductor industry is developing rapidly with new technology introduced almost on a daily basis. The device feature size is shrinking continuously and the number of transistors on an integrated circuit (IC) chip is increasing rapidly, as predicted

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Manufacturing Technology
by Moore's law.

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IC chip manufacturing processes
are complex methods that draw

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upon many disciplines.

Introduction to Semiconductor
Manufacturing Technologies,
Second Edition describes the
processes with minimal
mathematics, chemistry, and
physics; it covers advanced
concepts while keeping the

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Manufacturing Technology
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Technology, IC Fabrication
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Conventional Flow. This up-to-
date text on semiconductor
manufacturing processes takes
into consideration the rapid
development of the industry's

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Technology T. S. Chao Dept. of
Electrophysics. 2/80 CMOS
Process Flow • Overview of Areas

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in a Wafer Fab ... • Doping is the introduction of a dopant into the crystal structure of a semiconductor material to modify its electronic properties

*Semiconductor Manufacturing
Technology*

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IC chip manufacturing processes, such as photolithography, etch, CVD, PVD, CMP, ion implantation, RTP, inspection, and metrology, are complex methods that draw upon many disciplines.

[i]Introduction to Semiconductor Manufacturing Technologies,

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Manufacturing Technology
Second Edition [i] thoroughly describes the complicated processes with minimal mathematics, chemistry, and physics; it covers advanced concepts while keeping the contents accessible to readers without advanced degrees.

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up-to-date reference on
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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.

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Manufacturing Technology

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Manufacturing Technology by ...

What is a Semiconductor? • A conductor is a material which “conducts” electricity easily (such as metals). • An insulator is a material which is a very poor

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conductor of electricity (such as glass).

*Introduction to Semiconductor
Manufacturing and FA Process*
semiconductor technology 1 the
fabrication of a semiconductor
device the manufacturing phase

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Manufacturing Technology
of an integrated circuit can be divided into two steps the first wafer fabrication is the extremely sophisticated and intricate process of manufacturing the silicon chip manufacturing making wafers to

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