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**Autor:**

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**Sinopsis**

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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.

**Contents:**

Building Blocks for Integrated Circuits

Thermal Oxidation

Gas Kinetics and Plasma Physics

Chemical Vapor Deposition

Plasma-Enhanced Chemical Vapor Deposition and Etching

Pattern Transfer: Photolithography

Pattern Generation

Doping Technology

Metallization and Silicidation

Planarization and CMP Technology

Copper and Low-k