

Librería
Bonilla y Asociados
desde 1950



Título:

Autor:

Precio: \$1372.00

Editorial:

Año: 2009

Tema:

Edición: ^a

Sinopsis

ISBN: 9789812814456

This book is the first to give an authoritative and comprehensive account of the invention of Integrated Circuits (ICs) from an insider who had participated and contributed from the beginning of their invention and advancement to the Ultra Large Scale ICs (ULSICs) of today. It reads like a mystery novel to engross the reader, but it is not based on fiction; it gives documented facts of the invention of ICs, analyzes the patents, and highlights additional details and clarifications of their history.

In addition, the book clarifies the Nobel Prize award and raises intriguing questions which as yet remain unanswered even after about half a century since the ICs were invented. This is the invention which has revolutionized the whole world forever!

Contents:

Discovery, Invention, Improvement, Patents and Publications

Evolution of Miniaturization in Electronics: ICs to VLSICs to ULSICs and Beyond in the Future

Monolithic vs. Hybrid Concepts in ICs

Summary of the IC Fabrication, Inventions, Relevant Patent Filings and Issue Dates, and Methodology of Analyses and Numbering

Hoerni and Lehocvec Inventions

Kilby's Invention of IC: Key Patents, Claims and Analyses

Noyce's Invention of IC: Key Patent, Claims, and Analyses

Other Efforts to Invent and/or Contribute to the Invention ICs

Contributions of Kilby and Noyce Beyond the Invention and to Next Generation ICs

Discussion

Award of the Nobel Prize

Moore's Law

Growth of ICs and Impact on the Quality of Human Life

Conclusions, Combined Summary, Historical Facts and Unanswered Questions