



Multi-level copper metallization of a complementary metal oxide semiconductor (CMOS) chip. This scanning electron micrograph (scale: 1 μm = 3.5 μm) of a CMOS integrated circuit shows six levels of copper metallization that are used to carry electrical signals on the chip. The intermetal dielectric insulators have been chemically etched away here to reveal the copper interconnects. Photograph courtesy of IBM.

FIFTH EDITION

Solid State Electronic Devices

BEN G. STREETMAN AND SANJAY BANERJEE

*Microelectronics Research Center
Department of Electrical and Computer Engineering
The University of Texas at Austin*

K-t-dra
Grupo K-t-dra

Segunda Edición 4 No. 24-25 P.O. Box 170 - 07132 Puerto
Rico 00989-1700 San Juan, P.R. Tel: 787-751-1111
Columbus Avenue #1400 - Bogotá, Colombia

www.k-t-dra.com



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Essentials Of Solid State Electronics

Minjie Lin



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