



## The Art of Analog Layout (2nd Edition)

By Alan Hastings

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### The Art of Analog Layout (2nd Edition) By Alan Hastings

Verbal explanations are favored over mathematical formulas, graphs are kept to a minimum, and line drawings are used in this user-friendly book. Clear guidance and advice are provided for those professionals who lay out analog circuits. Matching of resistors and capacitors: Includes causes of mismatch, particularly the hydrogen effect and package shift. MOS Transistors: Covers a brief history of floating gate devices, EPROM and EEPROM. Applications of MOS transistors: Expands information on failure mechanisms, including BVdss/Bvdii, SILC, NBTI/PTBI and GIDL and the difference between electrical and electrothermal SOA. Consideration of failure mechanisms as crucial to layout: Integrates further information into many chapters covering various devices. Standard bipolar, polygate CMOS and analog BiCMOS: Covers all three fundamental processes. A valuable reference for professional layout designers.

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