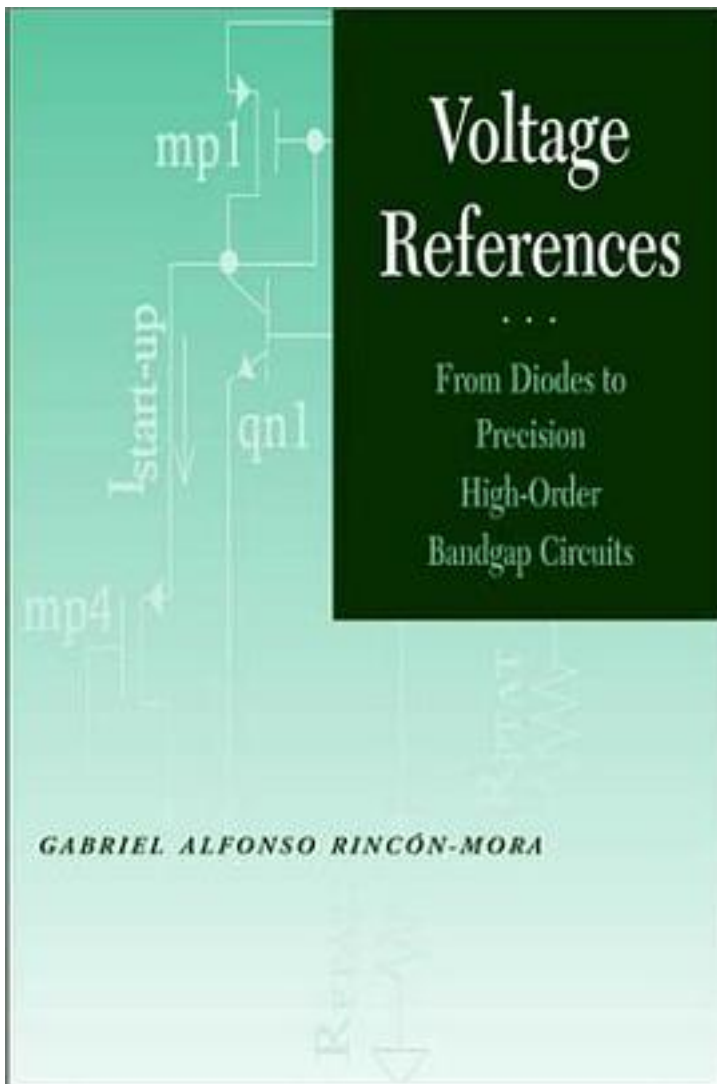


Voltage References



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The foremost tutorial resource on the design of integrated voltage references, from theory to real-life practice.

Voltage References covers the conceptual history and scope of practical design issues behind marketable and precision integrated voltage references. Effectual for professionals and understandable to novice designers, this book provides a familiarity with simple rudimentary design as well as precision state-of-the-art ones. Also covered are the design implications on SOC solutions, and low-voltage, low-power, and noisy mixed-signal environments. Enhanced with design examples, this volume will increase the reader's understanding of analog integrated circuits and the issues involved in producing commercially marketable and reliable devices.

Primary topics include:

The complete design of integrated voltage references

Basics of voltage references, from diodes and current mirrors to temperature-dependent current references

Design of zero-order, first-order, second-order, and higher-order reference circuits

State-of-the-art curvature-correction techniques

Practical design issues of integrated references, from error sources and circuit topologies to trimming circuits, package-shift effects, and characterization

Voltage References is an essential book for IC designers, product engineers, test engineers, researchers, and professors, as well as undergraduate and graduate students.

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