



# Charge Pump IC Design (Electronics)

By Feng Pan

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**Charge Pump IC Design (Electronics)** By Feng Pan

## Design state-of-the-art charge pumps

*Charge Pump IC Design* delivers an advanced systematic approach to charge pump circuit design?from building blocks to final pump. The book describes how to achieve high power efficiency and low supply noise. Negative feedback control, compensation, and stability are discussed and real-world design examples with schematics are included. The proven techniques presented in this practical, cutting-edge guide will help you to provide the efficient power conversion needed for today's portable electronic devices.

Comprehensive coverage includes:

- Regulators and power converters
- Charge pump design specifications and design metrics
- Single stage charge pump
- Multi-stage charge pump
- Charge pump clock driver
- Charge pump stability analysis
- Charge pump design, regulation, and control by examples
- Charge pump applications



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## Charge Pump IC Design (Electronics) By Feng Pan Bibliography

- Sales Rank: #1818280 in Books
- Published on: 2015-02-19
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x .70" w x 6.20" l, 1.10 pounds
- Binding: Hardcover
- 256 pages

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### Editorial Review

#### About the Author

**Feng Pan** received his BS degree in EECS from The University of California, Berkeley, and MS in Electrical Engineering from Stanford University. He is a Stanford Certified Program Manager (SCPM), and is currently working as a director of NSG at Micron Technology, Inc., on 3D VNAND technology. Mr. Pan previously held various senior management and leadership positions at SanDisk and AMD. Mr. Pan is coauthor of *Charge Pump Circuit Design*, and has 51 granted patents related to power management, LDO, charge pump architectures, charge pump regulations and applications, ADC design, op-amp designs, and NAND/NOR flash memory designs.

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