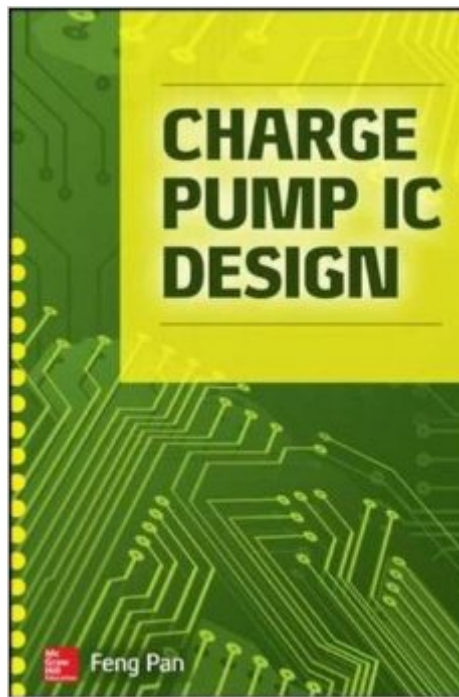


The book was found

# Charge Pump IC Design



## Synopsis

Design state-of-the-art charge pumps Charge Pump IC Design delivers an advanced systematic approach to charge pump circuit designâ€”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

## Book Information

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Average Customer Review: 5.0 out of 5 starsÂ Â  See all reviewsÂ  (2 customer reviews)

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## Customer Reviews

I am extremely glad to see the second edition of the book. The first edition introduces the readers to the world of charge-pump design for high-voltage generation. Aside from an introduction, it presented new ideas such as Vt-cancellation pump and Hybrid (Analog+Digital) charge pump. This second edition provides further advancements with the merging of oversampling techniques in charge-pump design for current detection. Next, this idea is developed into a "Sigma-delta charge pump" which combines widely prevalent oversampling and noise-shaping techniques to

charge-pump design. I strongly recommend this book to students and expert designers in the Analog/Mixed-signal IC design field.

Charge pump IC design is an excellent book which not only covers all the aspects of the on-chip charge pump design, but also illustrates how to approach circuit design. The Vt cancellation through parallel structure demonstrates the need-based design approach: simple is better. And the sigma delta charge pump ADC is a great example of thinking-outside-the-box approach: digitally-assisted analog design.

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