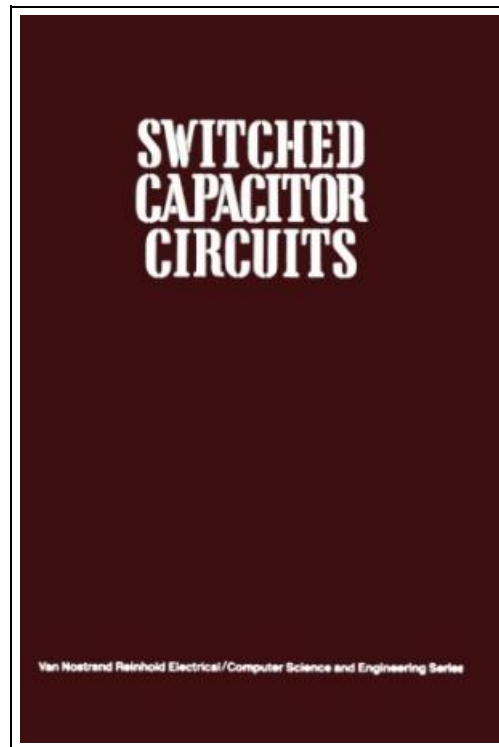


## Switched Capacitor Circuits



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## SWITCHED CAPACITOR CIRCUITS



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Book Condition: New. Publisher/Verlag: Springer Netherlands | The objective of the book is to provide sufficient background and understanding to enable its readers to design and apply switched capacitor circuits whether these are to be implemented as discrete circuits or by MOS technology. Since this is the first book devoted entirely to the subject of switched capacitor circuits, it has no pattern to follow. Fortunately, it was developed in an environment where many of the circuits and concepts it discusses could actually be integrated as MOS integrated circuits. It is hoped that this environment has created a selection process that has enhanced the contents. Switched capacitor circuits provide an example of the influence that technology can have on the field of electrical engineering. Only seven years ago, the problem of building analog circuits and systems using standard MOS technology was still unsolved. Although analog circuits and systems were implemented by means of integrated circuit technology, they were neither economical nor competitive. The act of combining analog sampled data techniques with MOS technology has solved this difficulty. As a result, the field of switched capacitor circuits has developed into maturity in a relatively short period of time. | 1. Analog Sampled Data Concepts.- Sampled Signals.- Laplace Transform Techniques.- Z-Transform Techniques.- Relationships Between the Continuous and Discrete Domains.- Relationships Between the S- and Z-Domains for High Sampling Rates.- Summary.- Problems.- 2. Implementation of Basic Signal-Processing Operations.- Notation.- Switched Capacitor Equivalent Resistors.- Switched Capacitor Equivalent RC Networks.- Use of the OP Amp in Switched Capacitor Networks.- Integrators.- First-Order Circuits.- Summary.- Problems.- 3. Introduction to Switched Capacitor Filters.- Continuous Filter Design.- Performance Characterization of SC Filters.- Resistor Simulation Using the Parallel SC Equivalent Resistor.- SC Filters Using the Bilinear Z-Transform for Component Simulation.- SC Filters Using the Backward Z-Transform...



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