Discrete Oscillator Design: Linear, Nonlinear, Transient, and Noise Domains

Randall W. Rhea

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Discrete Oscillator Design: Linear, Nonlinear, Transient, and Noise Domains Randall W. Rhea Oscillators are an essential part of all spread spectrum, RF, and wireless systems, and today's engineers in the field need to have a firm grasp on how they are designed. Presenting an easy-to-understand, unified view of the subject, this authoritative resource covers the practical design of high-frequency oscillators with lumped, distributed, dielectric and piezoelectric resonators. Including numerous examples, the book details important linear, nonlinear harmonic balance, transient and noise analysis techniques. Moreover, the book shows you how to apply these techniques to a wide range of oscillators. You gain the knowledge needed to create unique designs that elegantly match your specification needs. Over 360 illustrations and more than 330 equations support key topics throughout the book.

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