



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

By Randall W. Rhea

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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 engineers how to apply these techniques to a wide range of oscillators. Practitioners gain the knowledge needed to create unique designs that elegantly match their specification needs. Over 360 illustrations and more than 330 equations support key topics throughout the book. This book is authored by one of the most highly recognized names in the field.

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Editorial Review

About the Author

Randall W. Rhea is a leading RF and microwave engineering expert with extensive industry experience, working for Boeing Company, Goodyear Aerospace, and Scientific-Atlanta. He is the author of two other popular books in the field, as well as numerous technical papers and tutorial CDs. He is a graduate of the University of Illinois and Arizona State.

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