



# Design of Crystal and Other Harmonic Oscillators

*Benjamin Parzen*

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## **Design of Crystal and Other Harmonic Oscillators** Benjamin Parzen

Presents quantitative design techniques for a wide range of harmonic oscillators, with emphasis on crystal oscillators. Discusses both theory and practical "cookbook" procedures and covers oscillator frequency stability, output power, and resonator drive power. Offers algorithms that can be programmed into a relatively simple computer to obtain an oscillator design. Also reviews basic theory for circuit networks, oscillator models, and small and large signal transistor characteristics.

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