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Ralph E. Blake - Cooper Union

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1. Introduction. 2. Harmonic Motion. 3. Vibration Model. 4. Equation of Motion: Natural Frequency. 5. Viscously Damped Free Vibration. 6.

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Working principle. Any vibration of the shaft will cause the proximitor's output voltage to vary in precise step. A shaft vibration of 28.67 Hz, for instance, will cause the proximitor output signal to be a 28.67 Hz waveform superimposed on the DC "bias" voltage set by the initial probe/shaft gap.

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Vibration theory of olfaction - Wikipedia

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