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Variable Resonant Frequency Crystal Systems. Wmr,iA. J. Fay, Rr.x.t BArr. FRy, A. WA. H. Univ.dty of l.i.is, Urbana, lllin.s (Received June 13, 1950) A general analysis of vat/able resonant frequency crystal systems which utilize liquid media as backing is presented. Formulas are obtained for evaluating the effect of different geometries of backing on the resonant frequencies of the system.

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Variable Frequency resonant systems are different from variable inductance resonant systems in that they are tuned to a given capacitive load by adjusting the frequency of the test voltage instead of by adjusting the inductance at a fixed frequency. The advantages are: The system has no moving parts; There are no mechanical systems to maintain

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Basics of pulling the resonant frequency of a crystal resonator. A crystal resonator is a tuned circuit whose performance can be simulated by more usual electronic components. This equivalent circuit gives insights into its operation, as it is possible to see how the different electronic components in the equivalent circuit react together.

Crystal Resonator Frequency Pulling & Trimming ...

out for several particular variable resonant frequency crystal systems radiating into water. Curves are presented showing the (1) power output as a function of frequency for operation both on and off resonance, (2) resonant frequency shift as a function of backing length, and (3) relative band width as a function of frequency.

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Experimental Characteristics of Continuously Variable ...

Resonance describes the phenomenon of increased amplitude that occurs when the frequency of a periodically applied force is equal or close to a natural frequency of the system on which it acts. When an oscillating force is applied at a resonant frequency of a dynamical system, the system will oscillate at a higher amplitude than when the same force is applied at other, non-resonant frequencies. Frequencies at which the response amplitude is a relative maximum are also known as resonant frequenci

Resonance - Wikipedia

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