
WHAT IS RESONANCE?

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Abstract. Resonance is ubiquitous in Nature. It is relevant to understanding phenomena in quite distinct areas such as music, mechanics, engineering, astronomy. . . However, a deep understanding of its real meaning is still escaping us: Already in simple nonlinear models, the definition of resonance is unclear. I will review several situations where resonance is involved, from mechanical systems to tyde phenomena, ending with some considerations on the Solar System.

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