

CHAPTER OVERVIEW

5: Oscillations

In this course, oscillations and waves are discussed in detail, because of their importance for fundamental and applied physics. This chapter starts with a discussion of the so-called "linear" (or "harmonic") oscillator, whose differential equation of motion is linear and hence allows the full analytical solution, and then proceed to "nonlinear" and parametric systems whose dynamics may be only explored by either approximate analytical or numerical methods.

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