



# Volume 2

## Lecture 2

By: **Fred Khoury**



## **Lecture 2 – Second & Higher Order Equations**

Section 2.1 – Definitions of 2nd & Higher Order Equations .....	467
Section 2.2 – Linear, Homogeneous Equations with Constant Coefficients .....	492
Section 2.3 – Harmonic Motion.....	561
Section 2.4 – Inhomogeneous Equations; method of undetermined Coefficients .....	619
Section 2.5 – Variation of Parameters .....	739
Section 2.6 – Forced harmonic Motion .....	806
Section 2.7 – Euler's & Runge-Kutta Methods .....	881

