

Lecture 12

GEN_ENG 205-2: Engineering Analysis 2

Winter Quarter 2018

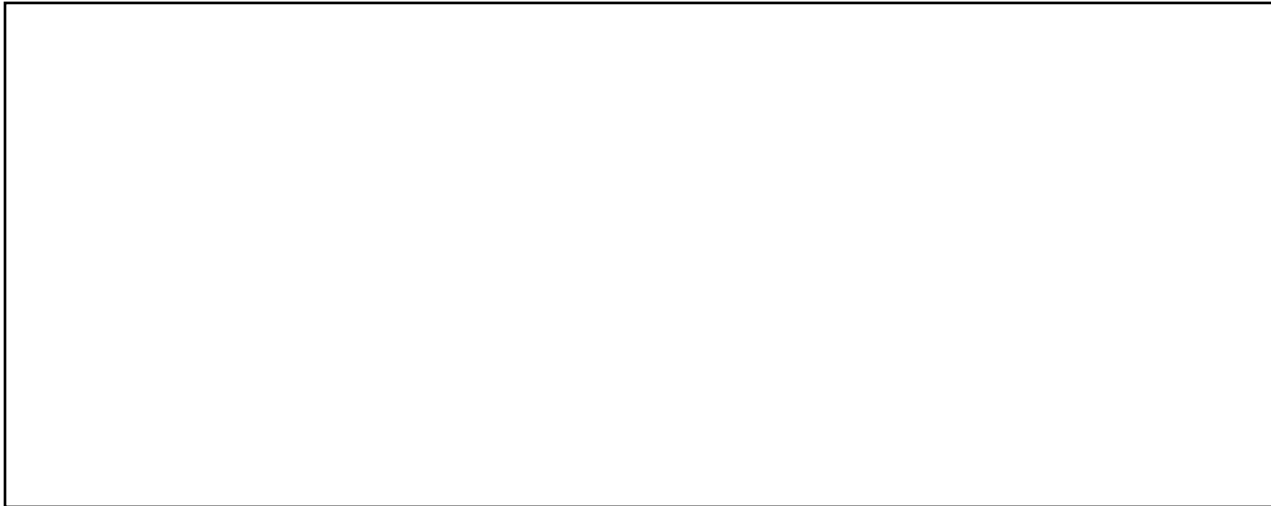
Prof. James P. Hambleton

Chapter4: §4.5 Equivalent Systems¹; Review for Midterm Exam

Acknowledgements

Portions of these lecture notes are taken from those of Prof. Jeff Thomas.

Equivalent Systems



Basic concept: Consider an object with a force acting on it. This force can be conceptually replaced with one acting at a different location, except that a moment must also exist at this new location for the systems to be equivalent. This concept extends naturally to systems of forces.

Go through Section 4.5 in the textbook on your own.

¹ Bedford, A., & Fowler, W. (2008). *Engineering Mechanics: Statics and Dynamics* (5th ed.). Upper Saddle River, NJ: Pearson Prentice Hall.