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Beer and Johnston, Statics/Dynamics Website, from Chapters 11 through 17, and Chapter 19. We don't cover the topic of Chapter 18, "Kinetics of Rigid Bodies in 3D," in the FE exam review class. In Part 1, I list all the problems identified by consecutive numbers in a manner similar to that used for problems in the textbook, namely,

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vector dot and cross products, vector topics are introduced from scratch in the context of mechanics. The use of matrices (to tidily set up systems of equations) and of differential equations (for describing motion in dynamics) are presented to the extent needed. The set up of equations for computer solutions is presented in a pseudo-

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mass. Many of the important quantities in dynamics are

similarly simpli?ed using the center of mass. The center of mass of a system is the point at the position rcm de?ned by r cm = r imi mtot for discrete systems (2.3O) = r dm mtot for continuous systems where mtot = mi for discrete systems and mtot = dm for continuous systems.

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