

ENAE 301: Homework 02

Due on September 17, 2024 at 01:00 PM

Dr. Paley, Section 0103

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Problem 1

3.18: Let $\mathcal{I} = (O, \mathbf{e}_1, \mathbf{e}_2, \mathbf{e}_3)$ be an inertial reference frame and frame $\mathcal{A} = (O', \mathbf{a}_1, \mathbf{a}_2, \mathbf{a}_3)$ be aligned with \mathcal{I} and translating with velocity ${}^{\mathcal{I}}\mathbf{v}_{O'/O} = v_0\mathbf{e}_1$.

Solution

Solution

Problem 2

3.24:

Solution

Solution

Problem 3

3.28:

Solution

Solution

Problem 4

3.32:

Solution

Solution

Problem 5

3.36:

Solution

Solution