

Homework H2.J

Given: Rigid links AB, BD and DE are joined together to form the mechanism shown. Link AB is known to be rotating at a constant rate of ω_{AB} . At the instant shown, links AB and DE are vertical, and link BD is horizontal.

Find: For the position shown:

- (a) Where is the instant center for link BD? Based on this result, what are the angular velocities of links BD and DE? Write your answers as vectors.
- (b) Determine the angular acceleration of links BD and DE. Write your answers as vectors.

