

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Department of Mechanical Engineering  
 2.001 Mechanics and Materials I  
 Spring, 2006

Problem Set 1

**Distributed:** Monday, September 11, 2006

**Due:** Wednesday, September 20, 2006

**Problem 1:** Find the reactions at the supports and the forces at the joints for the loaded beams depicted below.

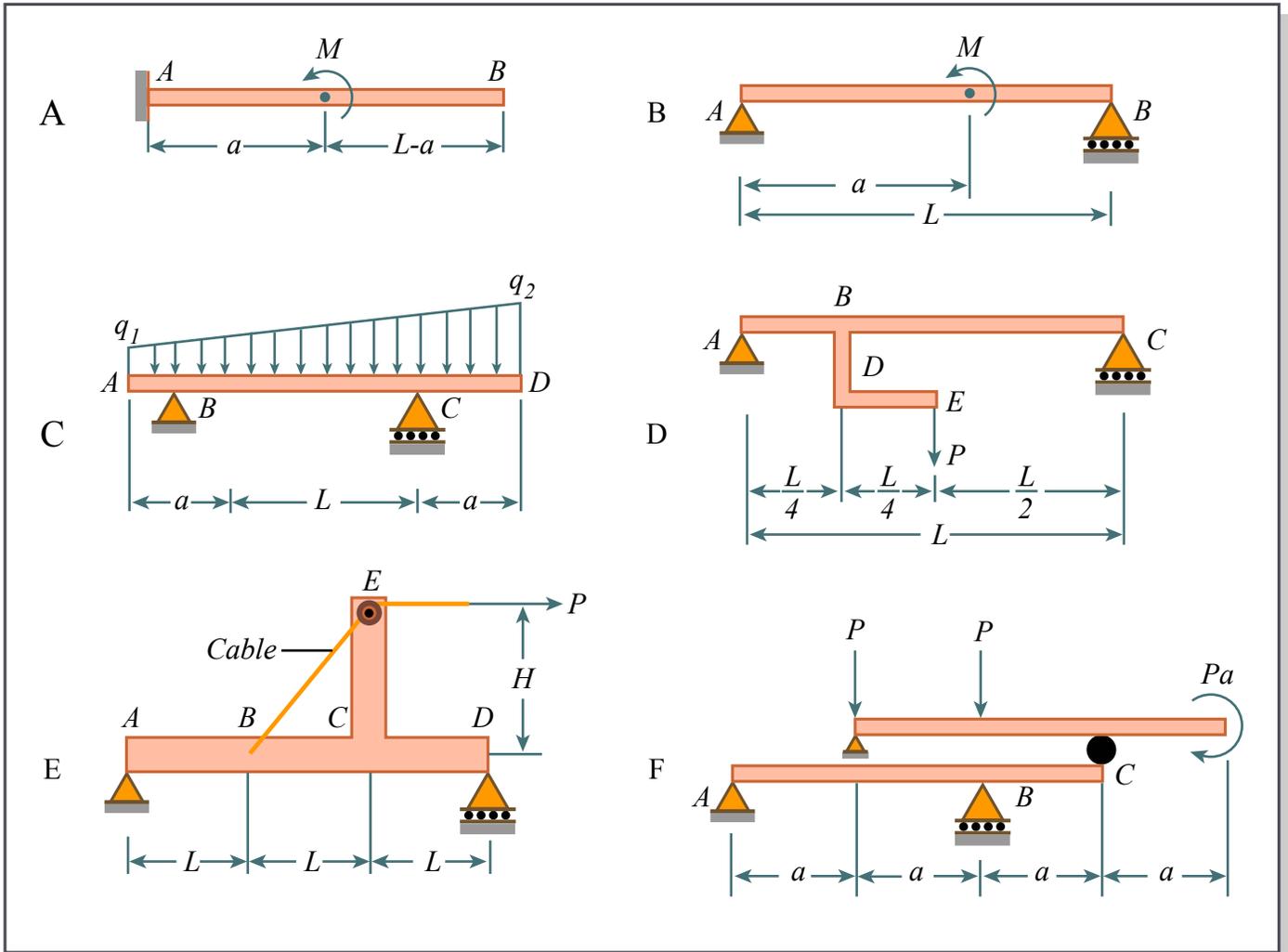


Figure by MIT OCW.

**Problem 2: Crandall, Dahl and Lardner (CDL) 1.16**

**Problem 3: CDL 1.13**

**Problem 4: CDL 1.9**

**Problem 5: CDL 1.31**

**Problem 6: CDL 1.45**