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Problemas sobre reacciones en apoyos y conexiones

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SALMA

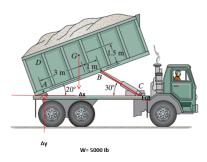
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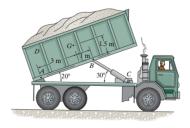
ABSTRACT

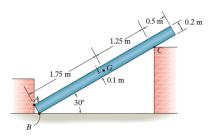
Below are the problems of reactions in supports and connections with their respective solution.

Problem1.

Draw the free-body diagram of the dumpster D of the truck, which has a mass of 2.5 Mg and a center of gravity at G. It is supported by a pin at A and a pin-connected hydraulic cylinder BC (short link). Explain the significance of each force on the diagram.







Solution:

Problem 2:

Draw the free-body diagram of the uniform bar, which has a mass of 100 kg and a center of mass at G. The supports A, B and C are smooth.

Solution:

