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sprinkler from the base along the axis of rotation at a rate of 8 gal/s and leaves the nozzles in the tangential direction. The sprinkler rotates at a rate of 250 rpm in a horizontal plane. The diameter of each jet is 0.5 in, and the normal distance between the axis of rotation and the center of each nozzle is 2 ft. If the rotating head is somehow stuck, determine the moment acting on the head.

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Conservation of Angular Momentum

Monday, October 1, 2012