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10 Solutions Manual · Fluid Mechanics, Fifth Edition. Solution: List the dimensions: { α } = {L 2 /T}, {L} = {L}, { μ } = {M/LT}, { δ Y} = {M/T 2 }. We divide δ Y by μ to get rid of mass dimensions, then divide by α to eliminate time: { 22 } YY 11,then. MLT L LT TLMT T L. δ δ μ μ α == ==

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continuous domain does not hold certain shapes and geometry like solids, and in many applications, the density of fluid varies with time and position.

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