

Special RBC Sedimentation Problem part of Homework Set 6
BE-382, Dr. C. S. Tritt, Winter '08-'09

Estimate the sedimentation rates (terminal velocities) of human red blood cells (RBC) in dispersed in normal saline and in a 10,000 g field. Use the properties of water at 25°C for the properties of the saline. Assume the blood cells are 9.0 μm diameter by 2.0 μm thick disks. Perform your calculations for disks settling both the edge on and face on orientations. Note the solution to this problem will probably require iteration so consider doing it using Excel or EES.