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CHAPTER 3 PRESSURE AND FLUID

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STATICS

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1. What is the difference between the hydrostatic pressure of blood between the brain and the soles of the feet of a person whose

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height 165 cm (suppose the density of blood = $1.0 \times 10^3 \text{ kg/m}^3$, acceleration due to gravity = 10 m/s^2)

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For theory relevant to the fluid mechanics and momentum transfer problems below, please refer to the following books: Bird, R. B., Stewart, W. E., and

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*Fluid Mechanics & Momentum
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the starting point for solving flow problems. This textbook introduces the major branches of fluid mechanics of incompressible and compressible media, the basic laws governing their flow, and gasdynamics.

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