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engineering. Think about a simple process where two chemicals A and B are heated up, react and are cooled down. The chemical engineer is responsible for the storage and transfer of the materia...

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26 Fluid Mechanics for
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by the fluid flowing

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around the object. It has a very clear point. The gravity force exerted on the object, which then has to be taken into account, is the difference between the weight of the object and the buoyancy force applied to the object. 1.9.

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Physical
Properties—Density,
Viscosity, and Surface
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Fluid Mechanics for
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third edition retains the
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text a success in prior editions. It is still a book that emphasizes material and energy balances and maintains a practical orientation throughout. No more math is included than is required to understand the concepts presented.

Fluid Mechanics for Chemical Engineers: Noel Nevers ...

PART I—MACROSCOPIC

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CHAPTER

1—INTRODUCTION TO
FLUID MECHANICS 1.1

Fluid Mechanics in
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3 1.2 General Concepts
of a Fluid 3 1.3

Stresses, Pressure,
Velocity, and the Basic
Laws 5 1.4 Physical

Properties—Density,
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Tension 10 1.5 Units

and Systems of Units
21 Example 1.1—Units

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1 Intro; Lecture 2 Fluid
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Fluid Statics; Lecture 4
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Integral Mass Balance;
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