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## CHAPTER 1

### FUNDAMENTALS

1.1.

#### INTRODUCTION

Man's desire for knowledge of fluid phenomena began with his problems of... 2.

Primary Dimensions in

SI and MKS Systems

Primary Dimension

MKS Units SI Units

Force [F] Kilogram (kg)

Newton ( $N=kg \cdot m/s^2$ )

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Fluid mechanics is a  
branch of continuous  
mechanics, in which the

kinematics and  
mechanical behavior of  
materials are modeled  
as a continuous mass  
rather than as discrete  
particles. The relation of

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fluid mechanics and continuous mechanics has been discussed by Bar-Meir (2008). In fluid mechanics, the 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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In natural flow, any fluid motion is caused by natural means such as the buoyancy effect that manifests itself as

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the rise of the warmer fluid and the fall of the cooler fluid. The flow caused by winds is natural flow for the earth, but it is forced flow for bodies subjected to the winds since for the body it makes no difference whether the air motion is caused by a fan or by the winds.

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precise manner while  
covering the basic  
principles and equations  
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The momentum flux

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(discussed in Chapter 5)

is given by the product

$\dot{m}V$ , where  $\dot{m}$  is mass flow rate and  $V$  is

velocity. If mass flow

rate is given in units of mass per unit time,

show that the

momentum flux can be

expressed in units of

force.

Introduction |

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Chapter Questions

Problem 1 Obtain a photograph/image of a situation in which the fact that in a static fluid the pressure increases with depth is important.

Print this photo and write a brief paragraph that describes the situation involved.

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Introduction. Flows completely bounded by solid surfaces are called INTERNAL FLOWS which include flows through pipes (Round cross section), ducts (NOT Round cross section Round cross section), nozzles diffusers sudden nozzles, diffusers, sudden

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contractions and expansions, valves, and fittings. The basic principles involved are independent of the cross-sectional shape, although the details of the flow may be dependent on it. The flow reflow ...

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together the  
contributions of  
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liquids through  
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Description. BASIC  
Fluid Mechanics  
combines the

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application of BASIC programming with fluid mechanics. Topics covered in this book include the fundamentals of the BASIC computer language, properties of fluids, fluid statics, kinematics, and conservation of energy. Force and momentum, viscous flow, flow measurement, and

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dimensional analysis and similarity are also considered.

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In this chapter, we will first give some basic concepts of fluid flow through porous media, such as porosity and compressibility of porous media. Then we will introduce Darcy ' s

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~~...~~ Fundamentals

Fluid mechanics is that discipline within the

board field of applied mechanics concerned

with the behavior of liquids and gases at rest

or in motion. 1.1 Some Characteristics of Fluids

1.

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For a certain fluid flow problem it is known that both the Froude number and the Weber number are important dimensionless parameters. If the problem is to be studied by using a 1:15 scale model, determine the required surface tension scale if the density scale is equal to 1. The model and prototype operate

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