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Manual For  
*Fluid  
Mechanics  
Lab Manual  
For  
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**# 3 - Head Loss  
in Fittings Fluid  
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**# 5 - Impact of  
a Jet Fluid  
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**#2 - Bernoulli's  
Equation**

**Experiment  
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**# 6: Orifice and  
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**# 1 -**

**Hydrostatic**

**Pressure Fluid**

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**Bench Fluid**

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**Tale of models -**

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Introduction**

**Fluid**

**Mechanics**

**Laboratory**

**Video: Viscosity**

**Bernoulli's  
theorem Fluid  
mechanics Lab |**

**Reading and  
calculations |**

***Bernoulli's***

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*principle  
experiment for  
fluid mechanics*

*lab Fluid*

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**Pressure Fluid**

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**Video: Wind**

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Fluid***

***Mechanics:  
Centrifugal***

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Manual For

***Pump  
Characteristics  
(21 of 34)***

**Archimedes'  
Principle: Made  
EASY | Physics  
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**This lab manual  
contains**

**experiments of  
fluid  
mechanics. This  
manual  
contains the  
experiments on  
Bernoulli's  
theorem, minor  
losses and  
major losses,**



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Manual For  
**orifice meter  
and  
venturimeter.**

**The diagram of  
experimental  
setup is also  
given in this  
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Check electrical  
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before starting  
the equipment.  
5.**

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**Lab. Manual**

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**Mechanics -**

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**In this work the**

Read Free Fluid  
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Manual For  
**experiments  
related to fluid  
mechanics  
laboratory are  
explained along  
with apparatus  
layout, formula  
used and  
procedure to  
perform  
experiments.  
The calculation  
related to each**

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**experiments are  
also given.**  
Engineering

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Mechanics Lab  
Manual  
(Modified  
version).pdf ...~~  
Lab Manual.

**Basic  
knowledge  
about fluid  
mechanics is**

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Manual For  
**required in  
various areas of  
water resources  
engineering  
such as  
designing  
hydraulic  
structures and  
turbomachinery  
. The applied  
fluid mechanics  
laboratory  
course is**

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Mechanics Lab

Manual For  
Mechanical  
Engineering

**designed to  
enhance civil  
engineering  
students'  
understanding  
and knowledge  
of experimental  
methods and  
the basic  
principle of  
fluid mechanics  
and apply those  
concepts in**



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**practice.**  
Mechanical

~~Engineering~~  
~~Lab Manual -~~  
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**The lab manual  
provides  
students with  
an overview of  
ten different  
fluid mechanics  
laboratory**

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Manual For  
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and their  
practical  
applications.**

**The objective,  
practical  
applications,  
methods,  
theory,...**

~~(PDF) Applied  
Fluid~~

~~Mechanics Lab~~

**Note the level of water in the vessel without the floating body 2. Put the floating body in the vessel and note the level of water 3.**

**Calculate the weight of the floating body**

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**MECHANICS  
LAB**

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Manual For  
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**basic principles  
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Manual For  
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problems.**

~~Applied Fluid  
Mechanics Lab  
Manual -  
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Publishing  
Fluid  
mechanics is an~~

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Manual For  
**undergraduate  
subject for civil  
engineers**

**which basically  
deals with  
fluids (water).**

**Different  
equations and  
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calculate the  
discharge,  
velocity etc of**



Read Free Fluid  
Mechanics Lab

Manual For  
**fluids and many  
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**This Lab  
manual mainly  
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universal  
laboratory tests**

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Manual For  
**of Fluid (water).**

Mechanical

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~~Manual)~~

**Applied Fluid**

**Mechanics Lab**

**Manual.**

**Experiment**

**#10: Pumps 1.**

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**waterworks and**

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Manual For  
**pumping**  
station are vital  
to its

**effectiveness.**

**Centrifugal  
pumps are most**

**...**

**Experiment**

**~~#10: Pumps -~~**

**~~Applied Fluid~~**

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**Manual**

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Manual For  
**This laboratory  
manual is  
prepared by the  
department of  
civil  
engineering,  
MCET for  
Hydraulic  
Engineering  
Laboratory. The  
purpose of this  
manual is to  
serve as an ...**

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Manual For  
**available in the  
fluid mechanics  
laboratory.**

**Additionally,  
model graphs  
are also given  
for each  
experiment.**

**This manual is  
divided into two  
sections each  
containing 6  
experiments.**

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**The**

**HYDRAULIC  
ENGINEERING  
-LABORATORY  
MANUAL  
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MECHANICS  
LAB LIST OF  
EXPERIMENTS**

**1. To  
demonstrate  
the operating**

**characteristic  
of two pumps  
running in a  
series pumping  
installation 2.**

**To demonstrate  
the operating  
characteristic  
of two pumps  
running in a  
parallel  
pumping  
installation 3.**



**To demonstrate  
the operating  
characteristic  
of two pumps  
running in a  
parallel and  
series**

**~~FLUID  
MECHANICS  
LAB LIST OF  
EXPERIMENTS~~**

**□ The purpose**

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**of this  
laboratory is to  
reinforce and  
enhance your  
understanding  
of the  
fundamentals of  
Fluid  
mechanics and  
Hydraulic  
machines. The  
experiments  
here are**

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Mechanics Lab

Manual For  
Mechanical  
Engineering

**designed to  
demonstrate  
the applications  
of the basic  
fluid mechanics  
principles and  
to provide a  
more intuitive  
and physical  
understanding  
of the theory.**

**FLUID**

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Engineering

**MECHANICS  
AND  
MACHINERY  
LABORATORY  
Introduction.**

**Fluid  
mechanics is  
the branch of  
physics that  
deals with the  
study of all  
fluids under  
static and**

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Mechanics Lab

Manual For  
**dynamic  
situations.**  
**Fluid**

**mechanics can  
be divided into  
fluid statics,  
the study of  
fluids at rest;  
and fluid  
dynamics, the  
study of the  
effect of forces  
on fluid motion.**

**This study area deals with many and diversified problems such as surface tension, fluid statics, flow in enclosed bodies, or flow round bodies (solid or otherwise), flow stability, etc.**

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Mechanical

Engineering  
Mechanics Lab  
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Mechanics Lab  
Manual |  
Laminar Flow |  
Reynolds  
Number  
For flow  
measurement,  
close the ball**



**valve, and use a stopwatch to measure the time that it takes to accumulate a known volume of fluid in the tank, which is read from the hydraulics bench sight glass. Collect**

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Manual For  
**water for at  
least one  
minute to**

**minimize errors  
in the flow  
measurement.**

~~**1.3: Experiment  
#3: Energy Loss  
in Pipe Fittings**~~

...

**for measuring  
the rate of fluid**

Manual For  
Mechanical  
Engineering

**flowing through  
a pipe. It is a  
cheaper device  
than  
Venturimeter.**

**Figure:**

**Orificemeter**

**Procedure:- 1.**

**Set the**

**manometer**

**pressure to the  
atmospheric**

**pressure by**

**opening the upper valve. 2. Now start the supply at water controlled by the stop valve. 3. One of the valves of any one of the pipe open and close all ...**

**~~Index S. Notch~~**

Manual For  
**(V and  
Rectangular  
types)**

**A set of two water-over-mercury manometers is used to measure large pressure differentials, and two water manometers are used to**

Manual For  
**measure small  
pressure  
differentials.**

**When not in  
use, the  
manometers  
may be isolated,  
using Hoffman  
clamps. Since  
mercury is  
considered a  
hazardous  
substance, it**

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Engineering

**cannot be used  
in  
undergraduate  
fluid mechanics  
labs.**

~~**1.4: Experiment  
#4: Energy Loss  
in Pipes -  
Engineering ...**~~

**The fluid  
mechanics  
range offers a**

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Mechanics Lab

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Mechanical  
Engineering

**wide scope of  
teaching  
equipment for  
the delivery of  
complete  
courses in fluid  
dynamics. In  
many settings,  
the modular  
Digital  
Hydraulic  
Bench acts as a  
base unit,**



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**allowing tutors**

**to swap out**

**individually**

**mounted**

**experiment**

**modules on**

**these self-**

**contained**

**benches,**

**reducing lab set-**

**up time, lab**

**space**

**requirements,**

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**and cost.**

Mechanical  
Engineering

**Fluid**

**Mechanics +**

**Equipment**

**fluid mechanics**

**and hydraulic**

**machines lab**

**manual 978 3**

**659 13699 3**

**9783659136993**

**3659136999**

**mechanical**

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**engineering  
manufacturing  
technology**

**engineering is  
applying  
scientific  
knowledge to  
find solutions  
for problems of  
practical  
importance a  
basic  
knowledge of**

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Manual For  
**fluid mechanics  
and machinery  
is essential for  
all the  
scientists and  
engineers  
because they  
frequently come  
across a variety**

**Fluid  
Mechanics Lab**

*Page 52/103*

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**# 3 - Head Loss  
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**# 5 - Impact of  
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**#2 - Bernoulli's  
Equation**

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**# 6: Orifice and  
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**Pressure Fluid**

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**Hydarulic**

**Bench Fluid**

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**Mechanics**

**Laboratory**

**Video: Viscosity**

**Bernoulli's  
theorem Fluid  
mechanics Lab |**

**Reading and  
calculations |**

***Bernoulli's***

*Page 55/103*

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Manual For  
*principle  
experiment for  
fluid mechanics*

*lab Fluid*

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**Pressure Fluid**

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Fluid***

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***Mechanics ...  
Fluid***

***Mechanics:  
Centrifugal***

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***Pump***

***Characteristics***

***(21 of 34)***

**Archimedes'**

**Principle: Made**

**EASY | Physics**

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**This lab manual  
contains**

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**Fluid**

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**experiments  
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**Basic  
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Mechanical

~~Engineering~~  
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**The objective,  
practical  
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theory,...**

~~(PDF) Applied  
Fluid~~

~~Mechanics Lab~~

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**Manual**

**Note the level of water in the vessel without the floating body 2. Put the floating body in the vessel and note the level of water 3.**

**Calculate the weight of the floating body**

**from the principle, weight of the body equal to weight of the displaced liquid**

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**5.**

**~~LAB MANUAL~~**  
**~~FOR FLUID~~**

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**MECHANICS  
LAB**

**Applied Fluid  
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Manual For  
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Manual For  
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**of Fluid (water).**

Mechanical

~~CE272 Fluid~~

~~Mechanics~~

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**Mechanics Lab**

**Manual.**

**Experiment**

**#10: Pumps 1.**

**Introduction. In**

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Manual For  
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Centrifugal  
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...

**Experiment**  
**#10: Pumps –**  
**Applied Fluid**  
**Mechanics Lab**  
**Manual**

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Manual For  
**This laboratory  
manual is  
prepared by the  
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engineering,  
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Hydraulic  
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Manual For  
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Additionally,  
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Manual For  
Mechanical

**The**

**HYDRAULIC  
ENGINEERING  
-LABORATORY  
MANUAL  
FLUID  
MECHANICS  
LAB LIST OF  
EXPERIMENTS**

**1. To  
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**To demonstrate  
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running in a  
parallel  
pumping  
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**To demonstrate  
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characteristic  
of two pumps  
running in a  
parallel and  
series**

**~~FLUID  
MECHANICS  
LAB LIST OF  
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**□ The purpose**

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Manual For

**of this  
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Manual For  
Mechanical  
Engineering

**designed to  
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more intuitive  
and physical  
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of the theory.**

**FLUID**

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**MECHANICS  
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MACHINERY  
LABORATORY  
Introduction.**

**Fluid  
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the branch of  
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deals with the  
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Manual For  
**dynamic  
situations.**  
**Fluid**

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be divided into  
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Manual |  
Laminar Flow |  
Reynolds  
Number  
For flow  
measurement,  
close the ball**

**valve, and use a stopwatch to measure the time that it takes to accumulate a known volume of fluid in the tank, which is read from the hydraulics bench sight glass. Collect**

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**water for at  
least one  
minute to  
minimize errors  
in the flow  
measurement.**

~~**1.3: Experiment  
#3: Energy Loss  
in Pipe Fittings**~~

~~...~~

**for measuring  
the rate of fluid**

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**flowing through  
a pipe. It is a  
cheaper device  
than  
Venturimeter.**

**Figure:**

**Orificemeter**

**Procedure:- 1.**

**Set the**

**manometer**

**pressure to the**

**atmospheric**

**pressure by**

**opening the upper valve. 2. Now start the supply at water controlled by the stop valve. 3. One of the valves of any one of the pipe open and close all ...**

**~~Index S. Notch~~**

Manual For  
**(V and  
Rectangular  
types)**

**A set of two water-over-mercury manometers is used to measure large pressure differentials, and two water manometers are used to**



Manual For  
**measure small  
pressure  
differentials.**

**When not in  
use, the  
manometers  
may be isolated,  
using Hoffman  
clamps. Since  
mercury is  
considered a  
hazardous  
substance, it**

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**cannot be used  
in**

Engineering

**undergraduate  
fluid mechanics  
labs.**

~~**1.4: Experiment  
#4: Energy Loss  
in Pipes -  
Engineering ...**~~

**The fluid  
mechanics  
range offers a**

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**wide scope of  
teaching  
equipment for  
the delivery of  
complete  
courses in fluid  
dynamics. In  
many settings,  
the modular  
Digital  
Hydraulic  
Bench acts as a  
base unit,**

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**allowing tutors**

**to swap out**

**individually**

**mounted**

**experiment**

**modules on**

**these self-**

**contained**

**benches,**

**reducing lab set-**

**up time, lab**

**space**

**requirements,**

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**and cost.**

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engineering  
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engineering is  
applying  
scientific  
knowledge to  
find solutions  
for problems of  
practical  
importance a  
basic  
knowledge of

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**fluid mechanics  
and machinery  
is essential for  
all the  
scientists and  
engineers  
because they  
frequently come  
across a variety**