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**small droplets.  
The addition of  
minute  
quantities of  
polymeric  
molecules  
provides an  
additive elastic  
stress which  
stabilizes the  
liquid column.**

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**Module  
Overview.  
Module  
Description.  
The module  
introduces  
advanced  
subjects in fluid  
mechanics and  
focuses on the  
theory and**

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**applications of  
the  
fundamental  
physical laws  
governing  
Newtonian and  
non-Newtonian  
fluid flows. The  
Navier-Stokes  
and continuity  
equations are  
revisited and  
the Energy and**

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**the general  
Transport  
Equations for  
fluid flows will  
be derived.**

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**Notation**

**Notation Symbol  
definition units**

**A area  $m^2$**

**D diameter  $m$**

**F force  $N$**

**g gravitational  
acceleration**

**$m/s^2$  h head or  
height  $m$**



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**L**length m  
**m**mass kg  
**P**pressure 2 Pa  
**or N/m ΔP**  
**p**ressure  
**d**ifference Pa or  
**N/m<sup>2</sup> Q** volume  
**f**low rate m<sup>3</sup>/s  
**r**adius m **t**time  
**s** **V**elocity m/s

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**Phenomena is**

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graduate  
textbook. It  
contains a  
detailed  
discussion of  
modern analytic  
methods for the  
solution of fluid  
mechanics, and  
heat and mass  
transfer  
problems,**

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**focusing on  
approximations  
based upon  
scaling and  
asymptotic  
methods. The  
book is also  
focused**

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**Fluid  
Mechanics  
Problems for  
Qualifying  
Exam (Fall  
2014) 1.  
Consider a  
steady,  
incompressible  
boundary layer**

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**with thickness,  
 $\delta(x)$ , that de- ...**

**The candidate  
is expected to  
have a thorough  
understanding  
of  
undergraduate  
engineering  
fluid mechanics  
topics. These  
topics are listed  
below for**

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instructors  
cover**

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**This course**  
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**surveys the  
principal  
concepts and  
methods of  
fluid dynamics.  
Topics include  
mass  
conservation,  
momentum,  
and energy  
equations for  
continua, the  
Navier-Stokes**



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**equation for  
viscous flows,  
similarity and  
dimensional  
analysis,  
lubrication  
theory,  
boundary layers  
and separation,  
circulation and  
vorticity  
theorems,  
potential flow,**

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to turbulence,  
lift and drag,  
surface ...**

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**Safety and  
Reliability.  
Fluid**

**mechanics is  
the branch of  
classical  
physics and  
mathematics  
concerned with  
the response of  
matter that  
continuously  
deforms (flows)**

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**when subjected  
to a shear  
stress.**

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mechanics  
studies the  
systems with  
fluid such as  
liquid or gas  
under static  
and dynamics  
loads. Fluid  
mechanics is a  
branch of**

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**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 fluid**



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**continuous  
mechanics has  
been discussed  
by Bar-Meir  
(2008).**

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Mechanics &  
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Basics of Fluid  
Mechanics By  
Jignesh Parmar  
2. Capillary  
“Capillary  
action is the**

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**ability of a  
liquid to flow in  
narrow spaces  
without the  
assistance of  
and in  
opposition to  
external forces  
like gravity”  
Responsible  
Forces: 1.**

**List of All Fluid-**

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**book is also  
focused on the  
solutions of  
representative  
problems.**

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approximations  
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years, students  
complete an  
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includes fluid  
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**A fluid is  
composed of  
different  
particles for  
which the**

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**properties may  
change with  
respect to time  
and space .**

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