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Solution Manual
Of
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Solution
Manual

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Kinematics Of

Particles Part I

(Rectilinear

Page 5/115

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Dynamics

Kinematics Of

Solved

University

Problems Linear

Impulse and

Momentum (learn

to solve any

problem)

Dynamics -

Lesson 2:

Rectilinear

Motion Example

Problem

~~Curvilinear~~

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Dynamics

~~Motion: Normal
and Tangential
components~~

~~(Learn to solve
any problem)~~

~~Dynamics Lecture
2 | Kinematics
of Particles — 2~~

~~Kinetics of
Particles~~

~~(Part 1) of
Engineering~~

~~Mechanics | GATE~~

~~Free Lectures |~~

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Dynamics

ME/CE Week 1a:

Introduction to

Kinematics of

Particle

(Engineering

Dynamics)

Dynamics -

Lesson 1:

Introduction and

Constant

Acceleration

Equations

Engineering

Mechanics -

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Dynamics

Kinematics of

Particles

-Solved Example

1 Dynamics

~~Lecture 03:~~

~~Particle~~

~~kinematics,~~

~~Rectilinear~~

~~continuous~~

~~motion part 2~~

Kinematics Of

Rigid Bodies -

General Plane

Motion - Solved

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Dynamics

Problems

Kinetics of

Particles

Example in

Cartesian

Coordinates -

Engineering

Dynamics

~~Absolute~~

~~Dependent~~

~~Motion: Pulleys~~

~~(learn to solve~~

~~any problem) How~~

~~To Solve Any~~

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Dynamics

~~Projectile~~

~~Motion Problem~~

~~(The Toolbox~~

~~Method)~~

Position,

Velocity,

Acceleration

using

Derivatives 1-

Variable

Acceleration (

part 1) How to

Solve a Free

Fall Problem -

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Dynamics

Simple Example

Dynamics -

Minimum Distance

Between Two Cars

- Kinematics of

Particles

Rectilinear

Kinematics:

Erratic Motion

(learn to solve

any problem step

by step)

~~Dynamics 12.2~~

~~Rectilinear~~

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Dynamics

~~Motion~~

Kinematics Of
Kinematics (Part

9: Force and
Acceleration

Example) [2015]

Dynamics 02:

Rectilinear

Continuous

Motion Part 1

**[with closed
caption]**

Engineering

Mechanics -

Kinematics of

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Kinematics Of

-Solved Example

8 Engineering

Mechanics -

Kinematics of

Particles

-Solved Example

12 *Engineering*

Mechanics -

Kinematics of

Particles

-Solved Example

2

Engineering

Page 14/115

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Dynamics

Mechanics -

Kinematics of

Particles

-Solved Example

11 **Engineering**

Mechanics -

Kinematics of

Particles

-Solved Example

10 Dynamics

Lecture 1 |

Kinematics of

Particles - 1

~~DYNAMICS OF~~

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Dynamics

~~RIGID BODIES~~

~~Kinetics of
rectilinear
translation:~~

~~Analysis as a
particle~~

**Dynamics: Lesson
21 - Work and
Energy Example
Problem Dynamics
Kinematics Of
Particles
Solution**

m --- equation

Page 16/115

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Dynamics

Kinematics of scalar

components

decomposition

according to a

specified

coordinate. $\sum F =$

a. Ch. 3:

Kinetics of

Particles. 3.3

Equation of

Motion and

Solution

Unconstrained

motion Motion of

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Dynamics

Kinematics Of
Particles
Solution Manual

the particle is determined by its initial motion and the forces from external sources.

**Ch. 3: Kinetics
of Particles**

Engineering

Mechanics:

Dynamics was

written by and

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Dynamics

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Chapter 2:

KINEMATICS OF

PARTICLES

includes 256

full step-by-

step solutions.

This textbook

survival guide

was created for

the textbook:

Engineering

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Dynamics

Mechanics: Of

Dynamics,
edition: 8.

Solution Manual

Solutions for

Chapter 2:

KINEMATICS OF

PARTICLES |

StudySoup

Analyzing motion
of systems of
particles . In
this chapter, we
shall discuss.

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Dynamics

... Consider the kinematics of the problem. ...
Solution: The i component of the equation of motion gives an equation for the unknown force in terms of known quantities .

**Dynamics and
Vibrations -**

Page 21/115

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Dynamics

**Notes - Dynamics
of Particles**

Kinematic

Equations {

Depending upon the known data and what is to be determined, a choice should be made as to which three of the following equations should be applied

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Dynamics

between the two points on the path to obtain the most direct solution to the problem.

Horizontal

Motion $V_x = (V_0)_x$
 $x = x_0 + (V_0)_x t$

Vertical Motion $V_y = (V_0)_y - gt$
 $y = y_0 + (V_0)_y t - \frac{1}{2}gt^2$
 $V_y^2 - (V_0)_y^2 = -2g(y - y_0)$

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Dynamics

Kinematics Of

Particles

**KINEMATICS OF A
PARTICLE - UCO**

The basic
equations.

Almost every
particle

rectilinear
kinematic

problem can be
solved by

manipulating the
following three

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Dynamics

Kinematics Of

Velocity: $v = ds/dt$.

Acceleration: $a = dv/dt$.

Acceleration as a function of position: $a ds = v dv$. Time-dependent equations.

**Kinematics of
Particles -**

Page 25/115

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Dynamics

**Rectilinear
Motion**

As barrel recoils with initial velocity v_0 , piston moves and oil is forced through orifices in piston, causing piston and cylinder to decelerate at rate

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Dynamics

proportional to
their velocity.

Determine $v(t)$,
 $x(t)$, and $v(x)$.

$a = -kv$.

SOLUTION: •

Integrate $a =$

$dv/dt = -kv$ to

find $v(t)$.

CHAP11

Kinematics of

particles - DEU

This EzEd Video

Page 27/115

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Dynamics

Explains What is
Kinematics of Pa
rticle Rectilinea
r Motion

**Kinematics Of
Particles Part I
(Rectilinear
Motion ...**

Solving

Rectilinear

Problems -

Example Problem

2.3-2 . A car is

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Dynamics

kinematics of a

straight flat

road. The

acceleration of

the car follows

the a-t graph

shown. The car

starts from rest

at $t_0 = 0$

seconds, reaches

its maximum

velocity of 45

m/s, and drives

at that velocity

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Dynamics

for 5 seconds.

The driver then applies the brakes slowing

the car to an eventual stop.

**Kinematics of
Particles -
Rectilinear
Motion**

Dynamics:!

(Kinematics &
Kinetics)!

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Dynamics

Kinematics! 1 m h

$v_0 = 2.8 \text{ m/s}$ 20 m

... Solution: -

2D projectile

motion - Get

expressions for

$v_x(t), v_y(t)$

then $x(t), y(t)$

- Substitute

into ground

constraint

expression •

Solve for time

of impact - With

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Particles

t I know, substitute & solve for (x ...

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Louisiana State

University

"Dynamics"

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and Solutions

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Johnston,

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Kinematics/Dynamics Of

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Particles Chpt.

12: Kinetics of

Particles:

Newton's Second

Law Chpt. 13:

Kinetics of

Particles:

Energy and

Momentum Methods

Chpt. 14:

Systems of

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Dynamics

Kinematics Chpt.

15: Kinematics
of Rigid Bodies

Solution Manual

"Dynamics"

**Review Problems
and Solutions**

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...

Dynamics is
general, since
the momenta,
forces and

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Dynamics

Kinematics of the

particles are

taken into

account. In this

instance,

sometimes the

term dynamics

refers to the

differential

equations that

the system

satisfies (e.g.,

Newton's second

law or

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Dynamics

Euler-Lagrange equations), and sometimes to the solutions to those equations.

However, kinematics is simpler.

Equations of motion - Wikipedia

Engineering
Mechanics :

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Dynamics

Kinematics Of

Tangential and
Normal

Components ? ? 2

$v^2 \frac{dv}{dt} = a_t v$

$\frac{dv}{dt} = a_t$

$a_n = \frac{v^2}{r}$

11 - 10 •

Tangential

component of

acceleration

reflects change

of speed and

normal component

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Dynamics

reflects change of direction. •
Tangential component may be positive or negative. Normal component always points toward center of path curvature.

**Engineering
Mechanics :
Dynamics**

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Dynamics

Kinematics Of

Motion of a
Particle.

Particle is a

term used to

denote an object
of point size. A

system of

particles which

formed into

appreciable size

is termed as

body. These

terms may apply

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Dynamics

Kinematics of
Particles
Solution Manual

equally to the same object. The earth for example may be assumed as a particle in comparison with its orbit, whereas to an observer on the earth, it is a body with appreciable size.

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Dynamics

Kinematics Of

Kinematics |

MATHalino

Kinematics is

the description
of the motion of
material bodies
without

referring to
their inertia or
the forces that
caused their
motion. This
chapter

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Dynamics

introduces the
important
concept of
inertial and
non-inertial
frames of
reference and
uses them to
illustrate how
to fully
describe the
kinematics of
particles.

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Kinematics of

Particles -

Dynamics of

Particles and

Rigid ...

Kinematics and

dynamics of

particles (Due

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experiments

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Solving particle

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Dynamics

kinematics problems

with

MATLAB/Mupad

(Due Fri Feb 14)

animate_helicopt

er.m animate_pen

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Solutions Matlab

code for

solutions

Dynamics and

Vibrations -

Homework

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Dynamics

Dynamics is

subdivided into

1. Kinematics

study of the

geometry of

motion. It is

used to relate

displacement,

velocity,

acceleration,

and time without

reference to the

cause of motion

2. Kinetics

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Dynamics

Kinematics Of

relation

existing between
the forces

acting on a

body, the mass

of the body, and

the motion of

the body Dr.

Mohammad

Abuhaiba, P.E.

Chapter 11 :

Kinematics of

Page 46/115

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Dynamics

Kinematics Of

Eighth Edition

Vector Mechanics

for Engineers:

Dynamics Motion

of Several

Particles:

Relative Motion

- For particles

moving along the

same line, time

should be

recorded from

the same

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Dynamics

Kinematics instant

and

displacements

should be

measured from

the same origin

in the same

direction. x_B

? $x_A =$ relative

position of B

with respect to

A $x_B = x \dots$

Chapter 11

Page 48/115

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Dynamics

kinematics of

particles -

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CHAPTER 12

Dynamics of
Relativistic
Particles and
Electromagnetic
Fields The
kinematics of
the special
theory of
relativity was
developed in

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Dynamics

Chapter 11. We now turn to the question of dynamics. In the first part of the chapter we discuss the dynamics of charged particle motion in external electromagnetic fields.

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Dynamics

Solved: CHAPTER

12 Dynamics Of

Relativistic

Particles And

...

We will study
the dynamics of
particle motion
and bodies in
rigid planar
(2D) motion.

This will
consist of both
the kinematics

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Dynamics

and kinetics of
motion.

Kinematics deals
with the

geometrical

aspects of

motion

describing

position,

velocity, and

acceleration,

all as a

function of

time.

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This 2006 work is intended for students who want a rigorous, systematic, introduction to engineering dynamics.

Conceptual
Dynamics is an

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Innovative Of

textbook

designed to

provide students

with a solid

understanding of

the underlying

concepts

required to

master complex

dynamics

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students

understanding of

core concepts

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them to become

more active in

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problems are

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included that

are meant to

test the

understanding of

fundamental

ideas presented

in the text

without

requiring

significant

calculation.

These problems

can be assigned

as homework or

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feedback on how

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sense, the book

is meant to be

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used as a tool

by which

students can

come to learn

and appreciate

the subject of

dynamics.

Students are

further

encouraged to be

active

participants in

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through

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particles
presented at the
end of each
chapter. These

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the students or
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or can be
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perform outside

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problems that

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derive the
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motion and to

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the resulting

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that may be

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Kinematics that
require coding
or a specialized
software package

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Maple, or MATLAB
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Design problems
are included in
each chapter in
order to
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importance of

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the material for

students, as

well as to get

the students to

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introduces the new elements of Conceptual Problems, Fundamental Problems and MasteringEngineering, the most technologically advanced online tutorial and homework system.

Lectures on
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Mechanics: Of

Statics and

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engineering with

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profile. It

gives a concise

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theorems, with
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underscores the

importance of

properly drawn

free-body

diagrams to

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enhance the Kinematics Of

problem-solving

skills of

students. Table

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couple systems .

. . 3. Static
equilibrium . .

. 4. Center of
mass . . . 5.

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Kinematics of

6.

Friction II.

PARTICLE

DYNAMICS . . .

7. Planar

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particles . . .

9. Work-energy

method for

particles . . .

10. Momentum and

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Angular momentum
of particles . .

. 11. Harmonic
oscillators III.

RIGID BODY

DYNAMICS . . .

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. 13. Planar
kinetics of
rigid bodies . .

. 14. Work-
energy method

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Kinematics of rigid bodies

• • • 15.

Impulse

relations for

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. 16. Three-

dimensional

kinematics of

rigid bodies . .

. 17. Three-

dimensional

kinetics of

rigid bodies

APPENDIX . . .

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A. Selected Of
mathematics . . .

. B. Quantity,
unit and
dimension . . .

C. Tables

Tough Test

Questions?

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Not Enough Time?

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resultant of

distributed

force system,

noncoplanar

force systems,

slope of the

Shear diagram,

and slope of the

Moment diagram

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A unique

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rigid body

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solved

illustrative

examples and

exercises to

encourage self-

learning The

study of

particle and

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dynamics is a

fundamental part

of curricula for

students

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control of

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include physics,

robotics,

nonlinear

dynamics,

aerospace,

celestial

mechanics and

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engineering,

among others.

While the field

of particle and

rigid body

dynamics has not

evolved

significantly

over the past

seven decades,

neither have

approaches to

teaching this

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derivations

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professional

engineers across

an array of

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domains.

Particles

Solution Manual

The response of a spherical particle to an accelerating environment is investigated.

When the Reynolds numbers associated with such accelerations

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Particles
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are small, the particle is in Stokes' regime and the linear equations governing its motion can be solved analytically.

Outside Stokes' regime, which is the general case for spheres comparable in

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Kinematics Of

precipitation

particles, the

equations are

nonlinear and

must be solved

numerically. The

numerical

solution

indicates that

particles of all

sizes falling in

a sheared

environment are

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Dynamics

excellent Kinematics Of

tracers of the
mean air motion.

Even a hailstone

as large as 2 cm

in diameter

falling at its

terminal speed

can be expected

to follow the

mean horizontal

air speed within

$\pm 0.5 \text{ m}$

sec^{-1} , provided

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Dynamics

the vertical
wind shear is
less than 10^{-2}
 sec^{-1} . However,
the time
response of a
spherical
particle to a
wind gust of
constant
velocity is
quite sensitive
to particle
size. This

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response can be approximated by an expression of the form $1 - e^{-t/[\tau]}$ where t depends on both particle size and the magnitude of the wind gust. For wind gusts of 1.0 m sec^{-1} , $[\tau]$ is seen to vary from less

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than 10^{-5} sec

for particles

smaller than

0.02 mm in

diameter to 2.5

sec for a 2.0-cm

hailstone. Also,

when a particle

is submitted to

a substantial

wind gust, a

significant

decrease in its

terminal

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occurs. It is

suggested that

the response of

a nonspherical

particle to wind

accelerations

will be at least

as fast as this

study indicates

for a spherical

particle of the

same mass .

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