

# E.S. N4 KINEMATICS

## QUESTION 2: KINEMATICS

2.1 An aircraft with an airspeed of 330 km/h takes off from the OR Tambo International Airport in the direction  $N35^\circ W$ . The aircraft is blown off course by a wind of 90 km/h from the direction  $W42^\circ S$ .

Calculate the resultant velocity of the aircraft.

2.2 Two vehicles start moving simultaneously. Vehicle P moves at 200 km/h  $W44^\circ N$  while vehicle Q moves at 200 km/h directly east.

Calculate the velocity of Q relative to P.

PART 2

EXAM

REVISION

APRIL 2018

# Kinematics Engineering Science N4 Resultant Velocity

**Jerry H. Ginsberg**



## **Kinematics Engineering Science N4 Resultant Velocity:**

**Engineering Science N4** Rousseau,1994-12 *basic engineering science n4* ,1988 *Engineering Kinematics* Alvin Sloane,1941 **Principles of Engineering Mechanics** Millard F. Beatty Jr.,2013-12-18 Separation of the elements of classical mechanics into kinematics and dynamics is an uncommon tutorial approach but the author uses it to advantage in this two volume set Students gain a mastery of kinematics first a solid foundation for the later study of the free body formulation of the dynamics problem A key objective of these volumes which present a vector treatment of the principles of mechanics is to help the student gain confidence in transforming problems into appropriate mathematical language that may be manipulated to give useful physical conclusions or specific numerical results In the first volume the elements of vector calculus and the matrix algebra are reviewed in appendices Unusual mathematical topics such as singularity functions and some elements of tensor analysis are introduced within the text A logical and systematic building of well known kinematic concepts theorems and formulas illustrated by examples and problems is presented offering insights into both fundamentals and applications Problems amplify the material and pave the way for advanced study of topics in mechanical design analysis advanced kinematics of mechanisms and analytical dynamics mechanical vibrations and controls and continuum mechanics of solids and fluids Volume I of Principles of Engineering Mechanics provides the basis for a stimulating and rewarding one term course for advanced undergraduate and first year graduate students specializing in mechanics engineering science engineering physics applied mathematics materials science and mechanical aerospace and civil engineering Professionals working in related fields of applied mathematics will find it a practical review and a quick reference for questions involving basic kinematics

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**Kinematics and Linkage Design** Allen Strickland Hall, 1961

**Uniplanar Kinematics of Solids and Fluids** George Minchin Minchin, 1882

**Fundamentals of Kinematics and Dynamics of Machines and Mechanisms** Oleg Vinogradov, 2000-07-25 The study of the kinematics and dynamics of machines lies at the very core of a mechanical engineering background Although tremendous advances have been made in the computational and design tools now available little has changed in the way the subject is presented both in the classroom and in professional references Fundamentals of Kinematics and Dynamics of Machines and Mechanisms brings the subject alive and current The author's careful integration of Mathematica software gives readers a chance to perform symbolic analysis to plot the results and most importantly to animate the motion They get to play with the mechanism parameters and immediately see their effects The downloadable resources contain Mathematica based programs for suggested design projects As useful as Mathematica is however a tool should not interfere with but enhance one's grasp of the concepts and the development of analytical skills The author ensures this with his emphasis on the understanding and application of basic theoretical principles unified approach to the analysis of planar mechanisms and introduction to vibrations and rotordynamics

Kinematics, Dynamics, and Design of Machinery Kenneth J. Waldron, Gary L. Kinzel, Sunil K. Agrawal, 2016-05-10 Kinematics Dynamics and Design of Machinery

Third Edition presents a fresh approach to kinematic design and analysis and is an ideal textbook for senior undergraduates and graduates in mechanical automotive and production engineering Presents the traditional approach to the design and analysis of kinematic problems and shows how GCP can be used to solve the same problems more simply Provides a new and simpler approach to cam design Includes an increased number of exercise problems Accompanied by a website hosting a solutions manual teaching slides and MATLAB programs

### **Solving Practical Engineering Mechanics Problems**

Sayavur I. Bakhtiyarov, 2018-04-10 Engineering Mechanics is one of the fundamental branches of science which is important in the education of professional engineers of any major Most of the basic engineering courses such as mechanics of materials fluid and gas mechanics machine design mechatronics acoustics vibrations etc are based on Engineering Mechanics course In order to absorb the materials of Engineering Mechanics it is not enough to consume just theoretical laws and theorems student also must develop an ability to solve practical problems Therefore it is necessary to solve many problems independently This book is a part of a four book series designed to supplement the Engineering Mechanics courses in the principles required to solve practical engineering problems in the following branches of mechanics Statics Kinematics Dynamics and Advanced Kinetics Each book contains 6-8 topics on its specific branch and each topic features 30 problems to be assigned as homework tests and or midterm final exams with the consent of the instructor A solution of one similar sample problem from each topic is provided This second book in the series contains six topics of Kinematics the branch of mechanics that is concerned with the analysis of motion of both particle and rigid bodies without reference to the cause of the motion This book targets undergraduate students at the sophomore junior level majoring in science and engineering

### **Principles of Engineering Mechanics**

Millard F. Beatty Jr., 2014-01-23 Separation of the elements of classical mechanics into kinematics and dynamics is an uncommon tutorial approach but the author uses it to advantage in this two volume set Students gain a mastery of kinematics first a solid foundation for the later study of the free body formulation of the dynamics problem A key objective of these volumes which present a vector treatment of the principles of mechanics is to help the student gain confidence in transforming problems into appropriate mathematical language that may be manipulated to give useful physical conclusions or specific numerical results In the first volume the elements of vector calculus and the matrix algebra are reviewed in appendices Unusual mathematical topics such as singularity functions and some elements of tensor analysis are introduced within the text A logical and systematic building of well known kinematic concepts theorems and formulas illustrated by examples and problems is presented offering insights into both fundamentals and applications Problems amplify the material and pave the way for advanced study of topics in mechanical design analysis advanced kinematics of mechanisms and analytical dynamics mechanical vibrations and controls and continuum mechanics of solids and fluids Volume I of Principles of Engineering Mechanics provides the basis for a stimulating and rewarding one term course for advanced undergraduate and first year graduate students specializing in mechanics engineering science

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Kinematics and Kinetics of Machinery John Adlum Dent, Arthur C. Harper, 1921 **Kinematics of Machines** Richard John Durley, 1903 *Kinematics and Dynamics of Machinery* Charles E. Wilson, J. Peter Sadler, 2013-10-03 The text is designed for undergraduate Mechanical Engineering courses in Kinematics and Dynamics of Machinery It is a tool for professors who wish to develop the ability of students to formulate and solve problems involving linkages cams gears robotic manipulators and other mechanisms There is an emphasis on understanding and utilizing the implications of computed results Students are expected to explore questions like What do the results mean and How can you improve the design

Computer Aided Kinematics and Dynamics of Mechanical Systems: Basic methods Edward J. Haug, 1989 Advanced Engineering Dynamics Jerry H. Ginsberg, 1998-11-13 This text offers a clear and refreshing exposition of the dynamics of mechanical systems from an engineering perspective Basic concepts are thoroughly covered then applied in a systematic manner to solve problems in mechanical systems that have recognisable applications to engineering practice All theoretical discussions are accompanied by numerous illustrative examples and each chapter offers a wealth of homework problems The treatment of the kinematics of particles and rigid bodies is extensive In this new edition the author has revised and reorganized sections to enhance understanding of physical principles and he has modified and added examples as well as homework problems The new edition also contains a thorough development of computational methods for solving the differential equations of motion for constrained systems *Computer aided kinematics and dynamics of mechanical systems* Edward J. Haug, 1989 **Kinematics and Dynamics of Machines** George Henry Martin, 1982 Rational Kinematics Jorge Angeles, 2011-10-08 A rational study of kinematics is a treatment of the subject based on invariants i e quantities that remain essentially unchanged under a change of observer An observer is understood to be a reference frame supplied with a clock Truesdell 1966 This study will therefore include an introduction to invariants The language of these is tensor analysis and multilinear algebra both of which share many isomorphic relations These subjects are treated in full detail in Ericksen 1960 and Bowen and Wang 1976 and hence will not be included here Only a short account of notation and definitions will be presented Moreover definitions and basic concepts pertaining to the kinematics of rigid bodies will be also included Although the kinematics of rigid bodies can be regarded as a particular case of the kinematics of continua the former deserves attention on its own merits for several reasons One of these is that it describes locally the motions undergone by continua Another reason is that a whole area of mechanics known as classical dynamics is the study of the motions undergone by particles rigid bodies and systems thereof

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