

# PROBLEM 12.71

**PROBLEM:** The airplane in Problem 12.70 is shown with its propellers rotating and its engine cylinders, both, counter-rotating relative to the fuselage and wing sections.

**Given:** Configuration for the rotating and counter-rotating propellers and the airplane with the fuselage rotating. Find the angular velocities for rotational energy.

**Assume:**  $\omega_{\text{fuselage}}$  is constant.

**Sketch:** Diagram of the airplane with its fuselage rotating and the propellers, both, counter-rotating and the engine cylinders, both, rotating. The fuselage is shown with a rotation  $\omega_{\text{fuselage}}$  and the propellers and engine cylinders are shown with a rotation  $\omega_{\text{propellers}}$ .



**Assume:** The fuselage rotates with  $\omega_{\text{fuselage}}$ .

$$\begin{aligned} \text{Total } \omega_{\text{fuselage}} &= \omega_{\text{fuselage}} + \omega_{\text{propellers}} = \omega_{\text{fuselage}} + \omega_{\text{propellers}} \left( \frac{1}{\omega_{\text{fuselage}}} \right) \left( \frac{1}{\omega_{\text{propellers}}} \right) \\ &= \omega_{\text{fuselage}} + \omega_{\text{propellers}} \end{aligned} \quad \text{Eq. 1}$$

The propellers and engine cylinders are

$$\begin{aligned} \text{Total } \omega_{\text{propellers}} &= \omega_{\text{propellers}} + \omega_{\text{engine cylinders}} = \omega_{\text{propellers}} + \omega_{\text{engine cylinders}} \left( \frac{1}{\omega_{\text{propellers}}} \right) \left( \frac{1}{\omega_{\text{engine cylinders}}} \right) \\ &= \omega_{\text{propellers}} + \omega_{\text{engine cylinders}} \end{aligned} \quad \text{Eq. 2}$$

**Let:** The change in rotational energy is related to the fuselage and propellers, which is

$$\Delta E_{\text{rot}} = \frac{1}{2} I_{\text{fuselage}} (\omega_{\text{fuselage}}^2 - \omega_{\text{propellers}}^2)$$

Then, solving for  $\omega_{\text{fuselage}}$  and  $\omega_{\text{propellers}}$  yields

$$\begin{aligned} \omega_{\text{fuselage}} &= \frac{1}{2} \frac{\Delta E_{\text{rot}}}{I_{\text{fuselage}}} + \omega_{\text{propellers}} \\ &= \frac{1}{2} \frac{\Delta E_{\text{rot}}}{I_{\text{fuselage}}} + \omega_{\text{propellers}} \left( \frac{1}{\omega_{\text{fuselage}}} \right) \left( \frac{1}{\omega_{\text{propellers}}} \right) + \omega_{\text{propellers}} \\ &= \omega_{\text{fuselage}} + \omega_{\text{propellers}} \end{aligned}$$

$$\omega_{\text{fuselage}} = \omega_{\text{fuselage}} + \omega_{\text{propellers}} \quad \text{Eq. 3}$$

For part (b), the rotating components are

# Fundamentals Of Thermodynamics 5th Edition Solution Manual

**M Mark**



## **Fundamentals Of Thermodynamics 5th Edition Solution Manual:**

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**Solutions Manual for the Chemical Engineering Reference Manual, Fifth Edition** Randall N. Robinson, 1996 Step by step solutions to all the practice problems in the Reference Manual. EIT Industrial Review Donovan Young, 2003-09-18 This guide is written for the afternoon FE EIT Industrial Exam and reviews each topic with numerous example problems and complete step by step solutions. End of chapter problems with solutions and a complete sample exam with solutions are provided. Topics covered: Production Planning and Scheduling, Engineering Economics, Engineering Statistics, Statistical Quality Control, Manufacturing Processes, Mathematical Optimization and Modeling, Simulation, Facility Design and Location, Work Performance and Methods, Manufacturing Systems Design, Industrial Ergonomics, Industrial Cost Analysis, Material Handling System Design, Total Quality Management, Computer Computations and Modeling, Queuing Theory and Modeling, Design of Industrial Experiments, Industrial Management Information System Design, Productivity Measurement and Management. 101 problems with complete solutions. SI Units.

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**Scientific and Technical Books in Print**, 1972 *The Publishers' Trade List Annual*, 1985 **Comprehensive**

**Dictionary of Chemical Engineering** Muhammad Rashid Usman,2015-03-29 This book is a comprehensive collection of chemical engineering terms in a single volume It covers generally all the chemical engineering literature and has distinguished features The book is a useful reference material for the people both at the schools and the industry The author's experience of teaching and research over the years has realized a must book of this kind The terms are written in alphabetical order Where a term deserves more elaboration a rather detailed description is provided The book also contains a number of labeled diagrams which may be helpful in understanding some critical terms **Forthcoming Books** Rose

**Army,2001** **Integrated Modeling of Reservoir Fluid Properties and Multiphase Flow in Offshore Production Systems** Tobias R. Gessner,Jader R. Barbosa Jr.,2023-10-03 The book is intended for practicing engineers in the oil industry researchers and graduate students interested in designing and simulating offshore hydrocarbon production systems It approaches offshore oil production systems from an integrated perspective that combines the modeling of thermophysical properties of reservoir fluids and their flow as a multiphase mixture in wellbores flow lines and risers The first part of the book presents an internally consistent method to compute the critical parameters and acentric factor of Single Carbon Number SCN fractions of petroleum mixtures using state of the art multivariate fitting techniques The procedure is illustrated and validated using flash and differential liberation data from actual field samples In the second part of the book mechanistic multiphase flow models are discussed in light of their ability to predict the pressure temperature and phase holdup of production fluids in wellbores flow lines and risers Multivariate fitting procedures are again applied to evaluate the sensitivity of the results with respect to closure relationship parameters such as slug body gas holdup wall shear stress and wall roughness in pipelines and production tubing Finally the modeling framework is validated using actual field data from offshore production wells *Subject Guide to Books in Print* ,2001 *Industrial Arts Index* ,1926 **Computer Modeling**

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