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PROPULSION ELEMENTS, 8. th.

EDITION. By George P. Sutton and
Oscar Biblarz . Published by John

Wiley & Sons, Inc. in 2010 . This
manual is in part an outgrowth of

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the senior/graduate university level and as short courses. All solutions in this manual were prepared

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The recent upsurge in global government and private spending and in space flight events has resulted in many novel applications of rocket propulsion technology. Rocket Propulsion Elements remains the definitive guide to the field, providing a comprehensive introduction to essential concepts and applications. Led by industry veteran George P. Sutton and by Professor Oscar Biblarz, this book provides interdisciplinary coverage including thermodynamics, aerodynamics, flight performance ...

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George P., Biblarz...

PROPULSION 3 cf. Eq. 2-7 of Biblarz and Sutton (2001) [1]. Define some quantities: mass ratio = m_f / m_0 where m_f := final mass (after rocket operation had consumed all usable propellant), which is M_0 above m_0 : = mass before rocket operation, which is $M(0)$ propellant mass fraction $m_p / M(0)$ cf. Eq. 2-8 of Biblarz and Sutton (2001) [1]. For thrust F_{thrust} , $F_{thrust} = \dot{m} u_e$

Contents

Sutton, George Paul. Rocket propulsion elements : an introduction to the engineering of rockets / by George P. Sutton, Oscar Biblarz.--7th ed. p. cm. "A Wiley-Interscience publication." Includes bibliographical references and index. ISBN 0-471-32642-9 (cloth: alk. paper) 1. Rocket engines. I. Biblarz, Oscar. II.

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