

SOLUTIONS MANUAL
to accompany
ROCKET PROPULSION ELEMENTS, 9th EDITION
By George P. Sutton and Oscar Biblarz

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This manual is in part an outgrowth of courses taught by Prof. Biblarz, both at the senior/graduate university level and as short courses. All solutions in this manual were prepared by both authors with some student collaboration. A number of design-type problems are included in several of the book's chapters and solutions to these were largely prepared by George Sutton. The style in this manual is informal.

The solutions given are mostly complete but not all problems are included, particularly in the more applied chapters. For problems which are of a "design nature" more than one answer is possible and expected. A few other problems, as presently stated, need additional information or call for assumptions or value-estimates to get started, otherwise the answers can only be given in parametric form. For the most part, all tabular and unit-conversion information may be found in the book but not necessarily in the same chapter as the problem. There are also several problems that require fundamentals not found explicitly in our book – here other standard references in the field should be consulted before searching for specialty papers from the research literature. In some chapters, this manual contains problems not found in the book which been added (together with their solutions) for the instructor's benefit and are labelled "**Extra Problems**".

We have attempted to be clear and accurate in the preparation of this manual. Should you discover errors or deficiencies, or wish to make technical comments about specific solutions, please contact Oscar Biblarz by e-mail at: obiblarz@nps.edu or info@oscarbiblarz.com or by regular mail at: Code ME/Bi, Department of Mechanical & Aerospace Engineering, Naval Postgraduate School, Monterey, CA 93943-5146. Any contributions to problems (particularly those presently without a solution) would be most welcome and may appear in subsequent versions of this manual.

It is intended that the distribution of this Solutions Manual for the 9th edition of Rocket Propulsion Elements be limited to professors, instructors, and other qualified teachers who use our book as a text in college courses. It was prepared to be used by individuals knowledgeable in the field and is not meant for student or other interested reader use. Inquiries for obtaining a copy of this manual should go through an appropriate Wiley sales representative. Visit www.wiley.com for more information.

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