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the definitive text on rocket propulsion now revised to reflect advancements in the field for sixty years sutton s rocket propulsion elements has been regarded as the single most authoritative sourcebook on rocket propulsion technology as with the previous edition coauthored with oscar biblarz the eighth edition of rocket propulsion elements offers a thorough introduction to basic principles of rocket propulsion for guided missiles space flight or satellite flight it describes the physical mechanisms and designs for various types of rockets and provides an understanding of how rocket propulsion is applied to flying vehicles updated and strengthened throughout the eighth edition explores the fundamentals of rocket propulsion its essential technologies and its key design rationale the various types of rocket propulsion systems physical phenomena and essential relationships the latest advances in the field such as changes in materials systems design propellants applications and manufacturing technologies with a separate new chapter devoted to turbopumps liquid propellant rocket engines and solid propellant rocket motors the two most prevalent of the rocket propulsion systems with in depth consideration of advances in hybrid rockets and electrical space propulsion comprehensive and coherently organized this seminal text guides readers evenhandedly through the complex factors that shape rocket propulsion with both theory and practical design considerations professional engineers in the aerospace and defense industries as well as students in mechanical and aerospace engineering will find this updated classic indispensable for its scope of coverage and utility

as early as april 1999 nasa administrator dan goldin established the decadal planning team dpt to provide a forum for future agency leaders to begin considering goals more ambitious than sending humans on missions to near earth destinations and robotic spacecraft to far off destinations with no relation between the two goldin charged dpt with devising a long term strategy that would integrate the entire range of the agency s capabilities in science and engineering robotic and human spaceflight to reach destinations beyond low earth orbit when the bush administration initiated interagency discussions in 2003 to consider a new spaceflight strategy nasa was prepared with technical and policy options as well as a team of individuals who had spent years preparing for the moment although elements of the policy that president bush announced at nasa headquarters in january 2004 the vision for space exploration vse differed from the plans developed by dpt and its successor the nasa exploration team next the benefits of preparation were unmistakable from the moment president bush announced the vse nasa stood ready to implement it key decisions such as setting a termination date for shuttle flights and initiating

development of technologies for deep space exploration heralded a paradigm shift allowing both nasa and the u s space community to move beyond the infrastructure technologies and institutional arrangements that had sustained low earth orbit operations for more than two decades this book provides a detailed historical account of the plans debates and decisions that opened the way for a new generation of spaceflight at the start of the 21st century

focusing on basic aspects of future reusable space transportation systems and covering overall design aerodynamics thermodynamics flight dynamics propulsion materials and structures this report presents some of the most recent results obtained in these disciplines the authors are members of three collaborative research centers in aachen munich and stuttgart concerned with hypersonic vehicles a major part of the research presented here deals with experimental and numerical aerodynamic topics ranging from low speed to hypersonic flow past the external configuration and through inlet and nozzle mathematicians and engineers jointly worked on aspects of flight mechanics like trajectory optimization stability control and flying qualities structural research and development was predominantly coupled to the needs for high temperature resistant structures for space vehicles

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