

(b) (i) Briefly describe combustion mechanism of composite solid propellants and sketch a typical temperature profile in the condensed phase of propellant. (8)

(ii) Mention any two types of turbine feed systems in liquid propellant rocket engines and illustrate them. Explain the operation of the feed system types. (8)

12. (a) (i) Discuss the importance of boat tailing in the airframe design of supersonic missiles. Sketch the pressure distribution on a typical boat tail configuration. (8)

(ii) What is the role of fins on the missile flight stability? How is the normal force distribution of the missile affected by the presence of fins? (8)

Or

(b) (i) With neat illustrations explain the following methods of distribution of forces and moments for rockets –
Body fitted coordinate system and flow system of coordinates. (8)

(ii) Distinguish between the following with neat sketches as applied to missile wings:
Subsonic and supersonic trailing edges by subsonic and supersonic leading edges. (8)

13. (a) (i) Derive the fundamental equation for rocket flight assuming that the rocket motion is one-dimensional. Further assuming that the rocket thrust is constant, derive an expression for range of the rocket. (8)

(ii) Describe the phenomenon 'impulsive shot' in rocket propulsion. What are the applications of impulsive thrust units. (8)

Or

(b) (i) Show that rocket trajectory is a straight line if the specific thrust of the rocket is constant when the rocket undergoes a constant pitch angle trajectory. (8)

(ii) Derive the equations of motion of a rocket in a gravity turn trajectory? How are velocity and range as functions of time determined? (8)

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AI-Driven Solutions for Solar Energy Efficiency, Irradiance Modeling, and PV Forecasting Alexandria, Auzuir Ripardo de, Upadhyay, Prashant, Galletta, Antonino, Sharma, Yashaswini, Yadav, Satya Prakash, 2025-08-08 The issue of intermittency or variations in solar irradiance caused by weather time of day and geographic considerations confronts the solar energy industry. Because of this unpredictability precise forecasting and effective management of solar power generation are essential for a steady supply of energy. Simultaneously, artificial intelligence AI approaches in particular machine learning ML, deep learning DL, and neural networks have shown promise in resolving intricate nonlinear issues across a range of areas. However, the utilization of these technologies for projecting solar irradiance and optimizing energy management is yet to be explored in depth necessitating specific skills and methods to properly tap into their potential. AI-Driven Solutions for Solar Energy Efficiency, Irradiance Modeling, and PV Forecasting examines the relationship between solar energy and AI with a particular emphasis on how AI-driven methods can improve solar power systems performance, efficiency, and forecasting. It illustrates how AI-based optimization algorithms may maximize energy output and reduce losses in photovoltaic PV systems and solar power plants. Covering topics such as charge management, microgrids, and smart building designs, this book is an excellent resource for engineers, executives, policymakers, technologists, environmental advocates, business leaders, investors, professionals, researchers, scholars, academicians, and more.

Basic Electrical and Electronics Engineering R.K. Rajput, 2007 *Scientific and Technical Aerospace Reports*, 1993 **The Hindu Index**, 2006 **The Michigan Technic**, 1948 *International Aerospace Abstracts*, 1992 *Universities Handbook*, 2010

Bulletin of the Institution of Engineers (India). Institution of Engineers (India), 1985 **AIAA Student Journal** American Institute of Aeronautics and Astronautics, 1976 **Aerospace Medicine**, 1967 **Proceedings of the 2000 Congress on Evolutionary Computation** Institute of Electrical and Electronics Engineers, 2000. These volumes contain the proceedings of the 2000 Congress on Evolutionary Computation. The papers address genetic programming, evolutionary optimization, the evolution of neural networks, evolutionary robotics, data mining with evolutionary algorithms, bio-inspired hardware, and more.

Index of Conference Proceedings, 1990 **Who was who in American History-science and Technology** Marquis Who's Who, Inc, 1976. Approximately 9500 biographical entries to prominent deceased Americans. Much of the information was taken from last entry that appeared during the person's lifetime. Covers colonial days to mid 1973. Each entry gives life and death information, personal, educational, and professional details. **Mechanical Engineering**, 1958 **Vassar Quarterly**, 1955 **Army and Navy Journal**, 1949 *Who's who in Frontiers of Science and Technology*, 1985

Biographical Encyclopedia of the World, 1946 *Parliamentary Debates (Hansard)*. Great Britain. Parliament. House of Commons, 2013 *Government Reports Announcements & Index*, 1992

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