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<<飞行器系统概论>>

图书基本信息

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内容概要

《飞行器系统概论(英文版)》系统地介绍了飞行器系统的基本概念和基本原理，主要包括空间环境、力学环境、飞行原理、系统组成、推进系统；外形与结构、制导与控制系统、地面设备与发射方式、有效载荷等。
对飞行器设计与研究的基本概念、研究方法和典型实验等也有介绍。

《飞行器系统概论(英文版)》可作为高等学校有关专业教材，也可供从事飞行器设计、研究、生产的相关人员参考。

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章节摘录

版权页： 插图： Cruise missile develops rapidly at the present time.Since the mid 1970s,because of the appearance of high efficiency minitype turbofan engine and development of the mid-course guidance,final guidance and nuclear warhead miniaturization,numbers of cruise missiles,including air launching type,ground launching type and submarine launching type,have been developed with advantaged characteristic such as low-altitude penetration,ultra-low-altitude penetration,high target accuracy,etc. 1.3.1.2 Airplanes Exploration for airplanes since long time ago,man simulated the birds that fly in the sky in ancient times.The imitation is just as the bionics we called today.During B.C.476-B.C.221(Zhanguo Dynasty),wooden magpie was made by Gongshu Ban who lived B.C.507-B. C.444.In A.D.25-220(Dong Han Dynasty),wooden birds were developed by Zhang Heng who lived A.D.78-A.D.139. In Italy,Leonardoda Vinci,(1452-1519),who observed the bird flight,the article Sul Volo degli Uccelli was written in 1505,at the same time,he gave the drawings of flappingwing air vehicle which uses man's effort to shake down,though it was difficult to realize at that time.In France,de Montgolfier manufactured the hot air ball that was a flight vehicle less than the air in 1783. Airplanes with fixedwings were to look for the new way to produce the higher lift!Because the main question is that lift too small,thrust too little. 1.3.1.3 Space vehicles Humans have always wondered about the mysterious objects in the sky.Ancient astronomers observed moving stars and called these objects planets,meaning wanderers.They also found comets,and meteors or shooting stars apparently falling from the sky.With the development of aerospace technology in the 20th century,it has the capability to send machines and people into outer space. Space vehicles offer human a better tool to explore the solar system and the rest of the universe,to understand the many objects and phenomena,and the resources for human benefit and attributes of the space environment.

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