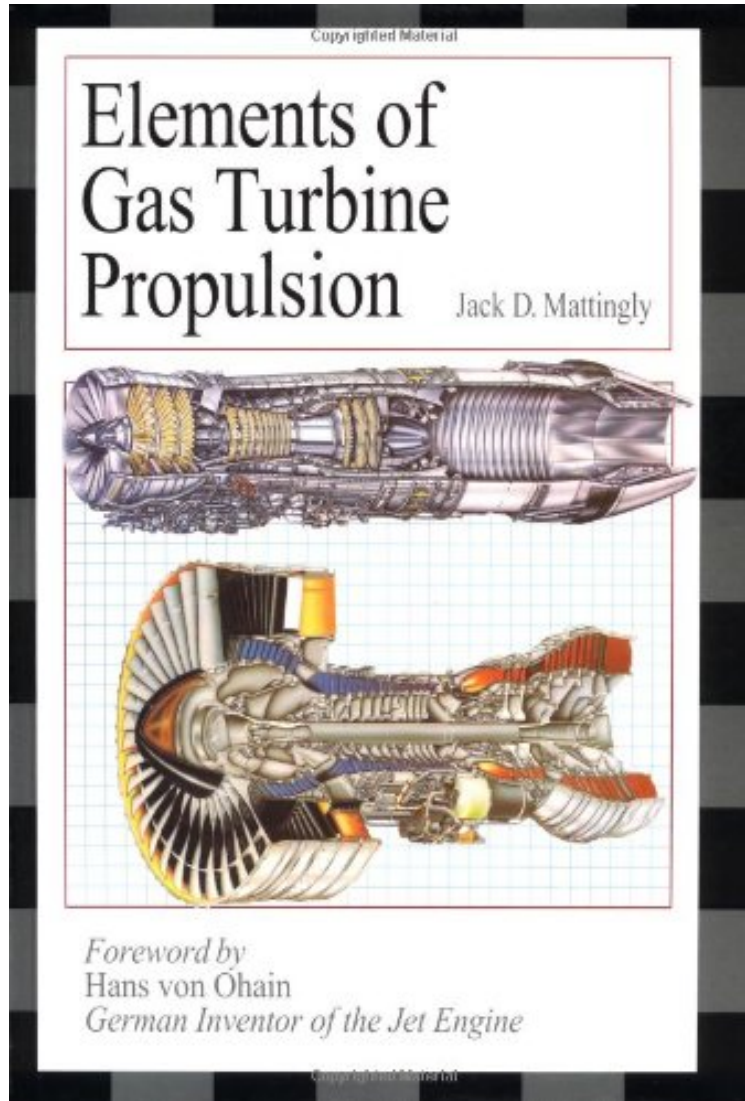


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Jack Mattingly

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Elijah Chingosho The book introduces the theory and operating principles of gas turbine engines. The fundamental concepts of the turbine engines design are spelled out. The primary systems and accessories of the gas turbine engine are also discussed. The book provides an excellent foundation in gas turbine engines and jet propulsion theory for aerospace or mechanical engineers. It is presented at the graduate and senior undergraduate level and provides a comprehensive coverage of all the fundamentals in a reader-friendly manner that also works beautifully as a professional reference. The book is well written and easy to follow with clear explanations and numerous illustrations and pictures to reinforce the basic concepts, trends, and design examples. The book also has several worked examples and many homework problems all which help the reader to grasp and apply the concepts. This is one of the best books available on the market on gas turbine engines and is therefore highly recommended. 9 of 11 people found the following review helpful. A Very Good Book With Lots of Useful Information By A Customer I bought the book "Elements of Gas Turbine Propulsion" in August of 1999 and I still read it almost everyday. It is a very interesting book, but it has a serious flaw in that there are so many errors, it appears that the editor(s) were asleep or out to lunch. It was a great disservice to the author, as I think he was shortchanged by the publisher. Being a former member of the USAF, myself I feel that his work was more meticulous than this. Perhaps the publisher was in such a hurry to hit the presses at all costs, that this is the result. This seems to be the trend in recent years. I believe that one of the major networks did and expose regarding major publishing house oversights in this area. Jim

This text provides an introduction to the fundamentals of gas turbine engines and jet propulsion for aerospace or mechanical engineers. The book contains sufficient material for two sequential courses in propulsion (advanced fluid dynamics) an introductory course in jet propulsion and a gas turbine engine components course. The text is divided into four parts introduction to aircraft propulsion; basic concepts and one-dimensional/gas dynamics; analysis and performance of air breathing propulsion systems; and analysis and design of gas turbine engine components.

About the Author Jack D. Mattingly received his B.S. and M.S. in Mechanical Engineering from the University of Notre Dame, and his Ph.D. in Aeronautics and Astronautics at the University of Washington. He retired in 2000 from Seattle University as Professor Emeritus in Mechanical Engineering to dedicate his efforts to writing new editions of his two textbooks Aircraft Engine Design and Elements of Gas Turbine Propulsion, teaching short courses, and consulting. Dr. Mattingly was previously at the Aero Propulsion Laboratory at Wright-Patterson AFB where he directed exploratory and advanced development programs aimed at improving the performance, reliability, and durability of gas turbine engine components. Earlier, he was a senior member of the Department of Aeronautics at the Air Force Academy. In addition, he has taught and done research in propulsion and thermal energy systems at the Air Force Institute of Technology (AFIT), the University of Washington, the University of Wisconsin, and IBM Corp. Having published more than 30 technical papers, articles, and textbooks in his field, Dr. Mattingly was co-author of Aircraft Engine Design, Second Edition in 2002 that won the 2005 AIAA Summerfield Book Award.