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*Jack Mattingly*

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*Jack Mattingly*

## **ELEMENT GAS TURBINE PROPULSION** Jack Mattingly

About the author: jack mattingly 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. While studying for his doctorate under gordon c.oates, he pioneered research in the mixing of conular swirling flows and develop a major new test facility. During his 28 years of experience in analysis and design of propulsion and thermodynamic system, he has developed aerothermodynamic cycle analysis models and created engineering software for air-breathing propulsion system. Dr. Mattingly has more than 23 years of experience in engineering education, previously as a senior member of the department of aeronautics at the united states air force academy, where he established a top undergraduate propulsion program. He retired from active duty with the u.s air force in 1989 and joined the faculty of seattle university. Table of content: forward preface list of symbols chapter 1. Introduction chapter 2. Thermodynamics review chapter 3. Compressible flow chapter 4. Aircraft gas turbine engine chapter 5. Parametric cycle analysis of ideal engines chapter 6. Component performance chapter 7. Parametric cycle analysis of real engines chapter 8. Engine performance analysis chapter 9. Turbo machinery chapter 10. Inlets, nozzles, and combustion system appendixes references index

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