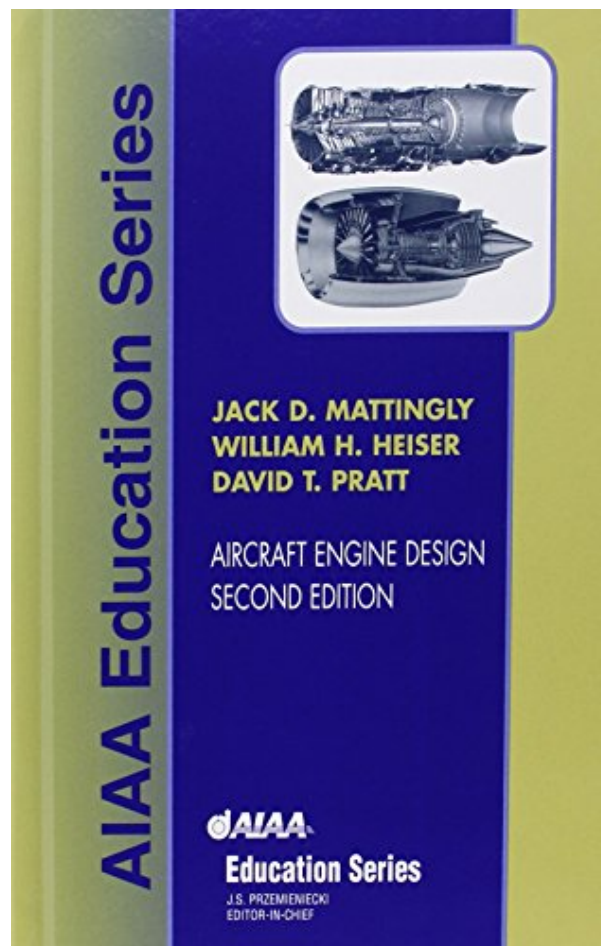
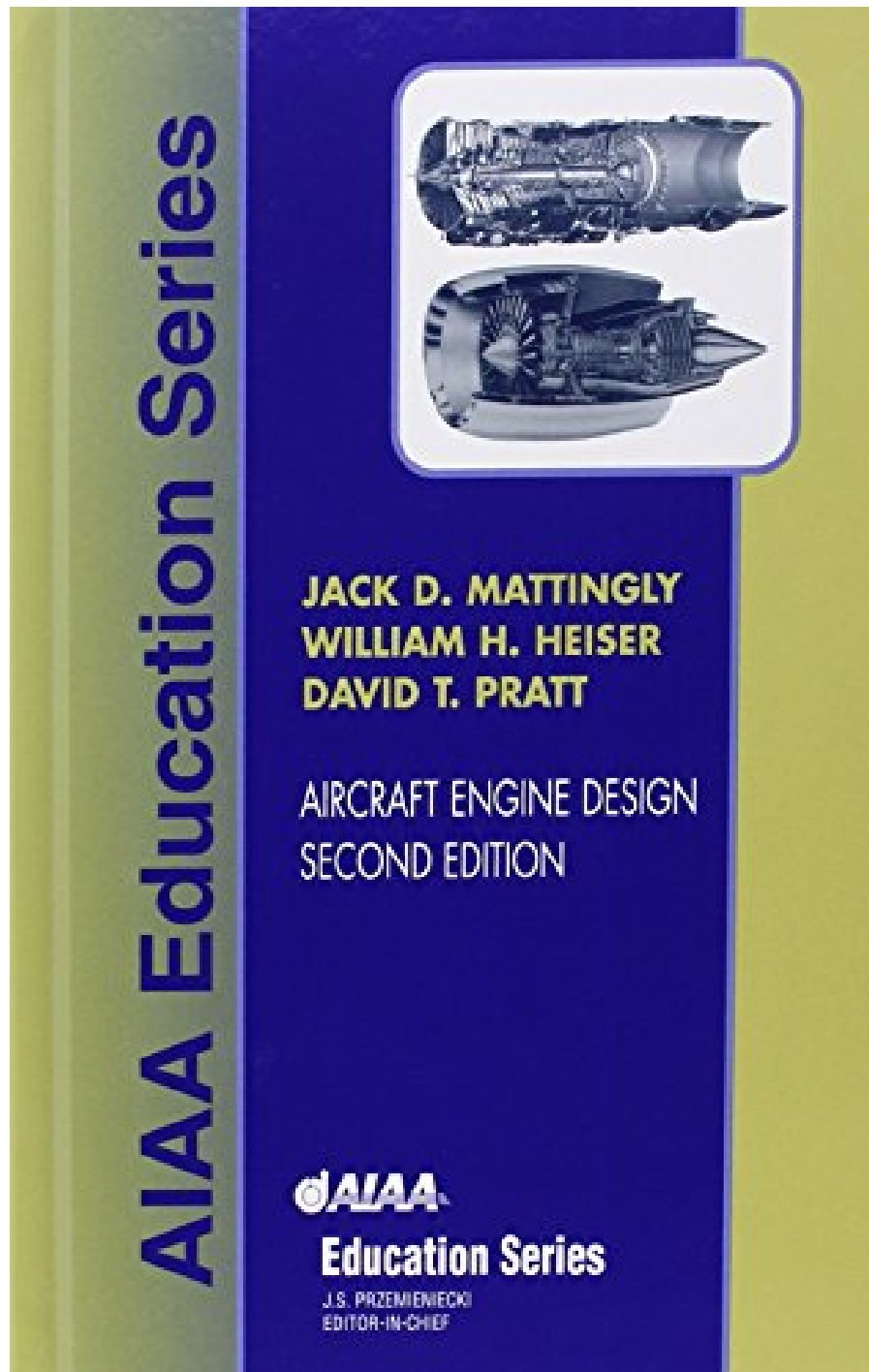


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By El-Sayed Agoor

This textbook and the accompanying software is a real time journey through the aircraft engine conceptual design process which is analogous to the design process within the industry. It is a unique reference after Dr. Oates three well known reference books which are the industry standards. Though, J.Mattingly followed Dr. Oates foot step in an innovative, modern and practical integrated manner.

From a generic stand, the package is a powerful tool for aircraft engine design, aircraft conceptual design/initial sizing, aircraft performance and the principles of gas dynamics.

A very interesting chapter has been given for combustion simulation, valuable annexes in propeller design, materials, mixer design, aircraft engine controls Etc. Design of supersonic and subsonic intakes and variable geometry CD nozzle is an added value. However, no provision was given for aircraft engine

transient, emission and noise; which I wish to see in the next coming edition. The output of this software could be sending for further aircraft modeling analysis.

This package is a good reference for aerospace engineers, and researchers seeking to get quick answers to conceptual problems in aircraft and engine design, which makes this package unique for contents and cost.

Meanwhile, I would like to express to Dr. Mattingly, Dr. Heiser and Dr. Pratt the gratitude of many students and engineers; living and trying to learn thousands of miles away from United States; for providing them with this low cost package. Those young students and engineers without that technical support cannot complement aerospace learning before it is too late because of the money obstacle.

I give this package(book + Software + examples and material on the CD) five stars plus.

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