



Aircraft Powerplants, Eighth Edition

By Thomas Wild, Michael Kroes

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Aircraft Powerplants, Eighth Edition By Thomas Wild, Michael Kroes

The most comprehensive, current guide to aircraft powerplants

Fully revised to cover the latest industry advances, *Aircraft Powerplants*, Eighth Edition, prepares you for certification as an FAA powerplant technician in accordance with the Federal Aviation Regulations (FAR). This authoritative text has been updated to reflect recent changes in FAR Part 147.

This new edition features expanded coverage of turbine-engine theory and nomenclature; current models of turbofan, turboprop, and turboshaft engines; and up-to-date details on turbine-engine fuel, oil, and ignition systems. Important information on how individual components and systems operate together is integrated throughout the text. Clear photos of various components and a full-color insert of diagrams and systems are included. Review questions at the end of each chapter enable you to check your knowledge of the topics presented in this practical resource.

Aircraft Powerplants, Eighth Edition, covers:

- Aircraft powerplant classification and progress
- Reciprocating-engine construction and nomenclature
- Internal-combustion engine theory and performance
- Lubricants and lubricating systems
- Induction systems, superchargers, turbochargers, and cooling and exhaust systems
- Basic fuel systems and carburetors
- Fuel injection systems
- Reciprocating-engine ignition and starting systems
- Operation, inspection, maintenance, and troubleshooting of reciprocating engines
- Reciprocating-engine overhaul practices
- Gas-turbine engine: theory, jet propulsion principles, engine performance, and efficiencies
- Principal parts of a gas-turbine engine, construction, and nomenclature
- Gas-turbine engine: fuels and fuel systems
- Turbine-engine lubricants and lubricating systems
- Ignition and starting systems of gas-turbine engines
- Turbofan, turboprop, and turboshaft engines
- Gas-turbine operation, inspection, troubleshooting, maintenance, and overhaul

- Propeller theory, nomenclature, and operation
- Turbopropellers and control systems
- Propeller installation, inspection, and maintenance
- Engine indicating, warning, and control systems

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- Sales Rank: #506482 in eBooks

- Published on: 2013-07-30
- Released on: 2013-07-30
- Format: Kindle eBook

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Editorial Review

About the Author

Thomas W. Wild is a professor in the Aviation Technology Department at Purdue University. He holds or has held several FAA certifications, including Aviation Maintenance Technician, Designated Mechanic Examiner, Flight Engineer, Inspection Authorization, and Sport Pilot. Professor Wild has earned numerous awards for his contributions to education during his over 32 years at Purdue. He has taught many courses dealing with reciprocating and gas-turbine engines, propellers, propeller control systems, and large aircraft systems. Professor Wild also serves as the managing editor of the *Aviation Technician Education Council Journal*. He has written and published many books and articles on several aviation-related subjects and served on boards of directors of aviation professional organizations.

Michael J. Kroes is an aviation practitioner and educator with more than 35 years of experience in the field. He holds or has held several FAA certifications, including Airframe and Powerplant Mechanic, Inspection Authorization, Designated Mechanic Examiner, Designated Engineering Representative, and Commercial Pilot. Mr. Kroes has worked for some of the top aviation companies, including Raytheon and Allied Signal, and spent 25 years as a professor and department head at Purdue University. Recognized as a leading expert on FAA technician certification, he authored a comprehensive study funded by the FAA. This study was used to develop new FAA technician certification content and guidelines.

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