



# Aircraft Electricity and Electronics, Sixth Edition (Aviation)

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**Aircraft Electricity and Electronics, Sixth Edition (Aviation)** By Thomas Eismin

## **Complete coverage of modern electrical and electronics systems for aircraft**

Fully updated for the latest technological advances, this comprehensive text describes design concepts, FAA certification requirements, and aerospace-quality maintenance and repair techniques for aircraft electrical and electronics systems. The materials contained in this book will benefit designers, engineers, and technicians for all aircraft and aerospace vehicles. The requirements for the FAA Airframe and Powerplant Mechanic certification are also presented. The book contains new and revised information on:

- The Airbus A-380 and the Boeing 787
- Fiber-optic cable
- Brushless motors and modern sensors
- Variable frequency generators
- Very light jet electrical power systems
- Electronic maintenance data
- Advanced integrated test equipment
- GPS augmentation systems and satellite communications
- Flight data and cockpit voice recorders
- Synthetic vision and radar systems
- Integrated flight decks
- Flight management systems
- And much more

This thoroughly up-to-date resource leads you from the fundamentals of electron theory through to the study of aircraft digital control systems. In-depth details on AC and DC systems for virtually all varieties of aircraft--including the newest models--are provided. New and improved diagrams, an 8-page full-color insert, and helpful troubleshooting techniques are also included.

Aircraft Electricity and Electronics, Sixth Edition, covers: • Fundamentals of electricity • Applications of Ohm's law • Aircraft storage batteries • Electric wire

and wiring practices • Alternating current • Electrical control devices • Digital electronics • Electric measuring instruments • Electric motors • Generators and related control circuits • Alternators, inverters, and related controls • Power distribution systems • Design and maintenance of aircraft electrical systems • Radio theory • Communication and navigation systems • Weather warning and other safety systems • Instruments and autoflight systems

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### **Editorial Review**

About the Author

**Thomas K. Eismin** is a professor of aviation technology and has been teaching at Purdue University since 1977. He has held several Federal Aviation Administration certifications, including Inspection Authorization, Airframe and Powerplant Mechanic, Designated Mechanic Examiner, and Private Pilot with Instrument and Lighter-Than-Air ratings. Professor Eismin is author of previous editions of *Aircraft Electricity and Electronics*.

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