

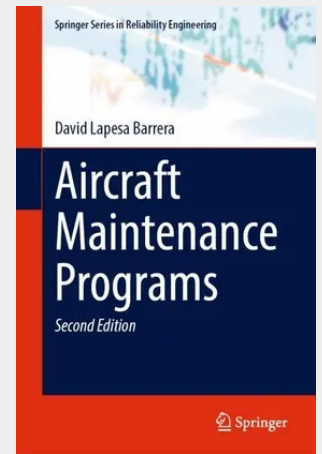
Aircraft Maintenance Programs

This book, now in an updated and expanded second edition, provides the only comprehensive comparison of the Aircraft Maintenance Program (AMP) requirements of the world's leading aviation regulators today: the European Aviation Safety Agency (EASA) and the Federal Aviation Administration (FAA). It offers an in-depth examination of the elements of an AMP, explaining the aircraft accident investigations and events that have shaped and informed the current rules.

By introducing the Triangle of Airworthiness model (Reliability, Quality, and Safety), this book enables easier understanding of the processes by which an aircraft and its components are deemed to be in a safe condition for operation, from a cost-effective and optimization perspective. It compares the best practices used by top airlines and compiles a series of tools and techniques to improve AMP standards.

This book's updated coverage introduces key enhancements, including updates to the MSG-3 methodology with Aircraft Health Monitoring, an explanation of the forthcoming MSG-4 standard with Condition-Based Maintenance concepts, the inclusion of Aircraft Cyber Security for Continuing Airworthiness, and a review of emerging technologies in the Innovation chapter.

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181,89 €

169,99 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9783032115553

Medium: Buch

ISBN: 978-3-032-11555-3

Verlag: Springer

Erscheinungstermin: 02.05.2026

Sprache(n): Englisch

Auflage: 2. Auflage 2026

Serie: Springer Series in Reliability Engineering

Produktform: Gebunden

Gewicht: 940 g

Seiten: 425

Format (B x H): 160 x 241 mm

