



Military Avionics Systems

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Wiley, 2006. Book Condition: New. Brand New, Unread Copy in Perfect Condition. A+ Customer Service! Summary: Series Preface. Acknowledgements. About the Authors. Introduction. 1 Military roles. 1.1 Introduction. 1.2 Air superiority. 1.3 Ground attack. 1.4 Strategic bomber. 1.5 Maritime patrol. 1.6 Battlefield surveillance. 1.7 Airborne early warning. 1.8 Electronic warfare. 1.9 Photographic reconnaissance. 1.10 Air-to-air refuelling. 1.11 Troop/materiel transport. 1.12 Unmanned air vehicles. 1.13 Training. 1.14 Special roles. 1.15 Summary. Further Reading. 2 Technology and architectures. 2.1 Evolution of avionics architectures. 2.2 Aerospace-specific data buses. 2.3 JIAWG architecture. 2.4 COTS data buses. 2.5 Real-time operating systems. 2.6 RF integration. 2.7 Pave Pace/F-35 shared aperture architecture. References. 3 Basic radar systems. 3.1 Basic principles of radar. 3.2 Radar antenna characteristics. 3.3 Major radar modes. 3.4 Antenna directional properties. 3.5 Pulsed radar architecture. 3.6 Doppler radar. 3.7 Other uses of radar. 3.8 Target tracking. References. 4 Advanced radar systems. 4.1 Pulse compression. 4.2 Pulsed Doppler operation. 4.3 Pulsed Doppler radar implementation. 4.4 Advanced antennas. 4.5 Synthetic aperture radar. 4.6 Low observability. References. 5 Electrooptics. 5.1 Introduction. 5.2 Television. 5.3 Nightvision goggles. 5.4 IR imaging. 5.5 IR tracking. 5.6 Lasers. 5.7 Integrated systems. References. 6 Electronic warfare. 6.1 Introduction. 6.2 Signals intelligence (SIGINT)....



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