



# **Aviation Weather Surveillance Systems: Advanced Radar and Surface Sensors for Flight Safety and Air Traffic Management (Progress in Astronautics and Aeronautics)**

*P. Mahapatra, R. Doviak, V. Mazur, D. Zrnic*

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This book provides a comprehensive introduction to the science, sensors, and systems that form modern aviation weather surveillance systems. Focusing on radar-based surveillance, it presents logical, incremental detail on the fundamentals of the various disciplines involved and their complex interplay. This includes giving a background to aviation systems and control, atmospheric and meteorological aspects, weather issues in relation to aviation, and broad coverage of modern aviation weather surveillance and information systems, including detailed material on Doppler weather radar, plus new generation atmospheric sensors. Aviation Weather Surveillance Systems is an excellent resource for civil and military aviation professionals; electronic engineers, especially those working in radar; meteorologists; pilots; and flight crews.

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