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Nota di contenuto	Contents -- About the editors -- Preface -- Acknowledgments -- List of editors -- List of contributors -- List of reviewers -- Introduction to volume 3 -- 1. Radar hydrology Witold F. Krajewski and James A. Smith -- 2. Quantitative precipitation estimation from weather radars, personal weather stations and commercial microwave links Aart Overeem, Remko Uijlenhoet and Hidde Leijnse -- 3. Quantitative weather radar: a research to operations perspective in Canada David Hudak, Daniel Michelson, Sudesh Boodoo, Norman Donaldson, Paul Joe, Andre´s Pe´rez Hortal, Janti Reid, Peter Rodriguez and Brian Sheppard -- 4. Volcanic plume retrieval using weather radar Luigi Mereu, Frank S. Marzano, Simona Scollo, Mario Montopoli and Gianfranco Vulpiani -- 5. The effect of weather on the performance of mm-wave and sub-THz automotive radar F. Norouzian, Y. Xiao and M. Gashinova -- 6. Spectral interference in weather radars from wireless communication systems Elena Saltikoff, John Y. N. Cho and Philippe Tristant -- 7. Advances in weather radar monitoring of bird movement Cecilia Nilsson, Adriaan Dokter, Silke Bauer, Kyle Horton and Andrew Farnsworth -- 8. Complementary operation of Doppler radar and lidar at airports Frank Gekat, Ronald Hannesen, Sebastian Kauczok, Marcus

Pool, Christian Schiefer and Albert Tows -- Epilogue

Sommario/riassunto

This comprehensive handbook written by a team of international experts discusses the key technical and scientific ideas that have propelled the field of weather radar forward. The book covers the five areas of weather radars: science, engineering, signal processing, electromagnetics, and applications.
