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everything RF Publishes New eBook on Automotive Radar Covering mmWave, UWB, and FMCW Technologies

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Content

everything RF, the leading online publication for the RF and Microwave industry, has released a new eBook titled "[Introduction to Automotive Radars](#)". This comprehensive resource brings together insightful articles and whitepapers from leading companies on automotive radars, a critical sensing technology in modern vehicles, enabling a wide range of advanced driver-assistance systems (ADAS) and supporting the progression toward autonomous driving.

Automotive radar sensors provide reliable detection of objects, vehicles, and pedestrians in challenging environmental conditions such as rain, fog, and low visibility. Their ability to simultaneously measure range, velocity, and angle makes them essential for applications including adaptive cruise control, collision avoidance, blind-spot detection, and automated parking. As vehicles incorporate increasing levels of sensing and intelligence, radar systems must deliver higher resolution, improved target discrimination, and greater reliability while maintaining compact size, low power consumption, and cost efficiency. Advances in RF front-end design, antenna architectures, semiconductor technologies, and signal processing are enabling the next generation of high-performance radar solutions.

The articles and whitepapers published in this eBook explore key aspects like test & measurement solutions for automotive radars, mmWave & UWB radars, FMCW radar technology and various implementations in ADAS applications.

Articles in this eBook include:

- **Automotive Radar Basics** - *everything RF*
- **Automotive Radar Technology, Market and Test Requirements** - *Rohde & Schwarz*
- **Automotive Millimeter-Wave Radar and Test Solutions** - *Anritsu*
- **mmWave Automotive Radar and Antenna System Development** - *Cadence*
- **EM Simulation of Automotive Radar Mounted in Vehicle Bumper** - *Remcom*
- **Sensing Beyond Limits: Transforming User Experience with UWB Radar** - *Qorvo*
- **Advanced Methods for Analyzing Ultra Wide Automotive Radar Signals** - *Rohde & Schwarz*
- **Understanding FMCW Radar Technology in Automotive ADAS Systems** - *everything RF*
- **Benefits of Time-Domain Electromagnetic Simulation for Automotive Radar** - *Remcom*

everything RF created this eBook to present key concepts and practical insights into automotive radar technologies and system design. This eBook has been made possible through the contributions of industry leaders, including Remcom, Rohde & Schwarz, Anritsu, Qorvo, and Cadence. Their expertise

provides valuable insights into automotive radar technologies and highlights the innovations shaping their future.

Supporting Links:

<https://www.everythingrf.com/ebooks/details/6026-introduction-to-automotive-radars>

Tags:

5G, ADAS, Automotive, EM Simulation, mmWave, RF, Semiconductors, Test & Measurement, UWB

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