

**These publications are authored by the  
Center for Advanced Communications research personnel.**

**Books**

- [1] M. G. Amin, Editor, Radar for Indoor Monitoring, CRC Press, 2017.
- [2] M. G. Amin, Editor, Compressive Sensing for Urban Radar, CRC Press, 2014.
- [3] F. Ahmad, Editor, Compressive Sensing, Proceedings of SPIE, vol. 8365, SPIE, Bellingham, WA, 2012.
- [4] M. G. Amin, Editor, Through the Wall Radar Imaging, CRC Press, 2011.

**Book Chapters**

- [1] F. Ahmad and M.G. Amin, "Radar Imaging of Building Interiors," in R. Klemm (Ed.), Novel Radar Techniques and Applications, IET, UK, 2016.
- [2] F. Ahmad, T. Dogaru, and M.G. Amin, "Ultrawideband Sense Through The Wall Radar Technology," in J.D. Taylor (Ed.), Advanced Ultrawideband Radar: Targets, Signals and Applications, CRC Press, 2016.
- [3] M. G. Amin, "Sparsity-aware moving target indication," in M. G. Amin, Editor, Compressive Sensing for Urban Radar, CRC Press 2014.
- [4] F. Ahmad, "Wall clutter mitigations for compressive imaging of building interiors," in M. G. Amin, Editor, Compressive Sensing for Urban Radars, CRC Press, 2014.
- [5] L. Stankovic, S. Stankovic, I. Orovic, and Y. D. Zhang, "Time-frequency analysis of micro-Doppler signals based on compressive sensing," in M. G. Amin, Editor, Compressive Sensing for Urban Radars, CRC Press, 2014.
- [6] M. G. Amin and Y. Zhang, "DOA Estimation of Nonstationary Signals," in R. Chellappa and S. Theodoridis (eds), Academic Press' Library in Signal Processing, Academic Press, 2013.
- [7] M. G. Amin and F. Ahmad, "Through-the-Wall Radar Imaging: Theory and Applications," in R. Chellappa and S. Theodoridis (eds), Academic Press' Library in Signal Processing, Academic Press, 2013.
- [8] F. Ahmad and R. Narayanan, "Conventional and Emerging Waveforms for Detection and Imaging of Targets behind Walls," in M. Amin (Ed.), Through-the-Wall Radar Imaging, CRC Press, 2011.
- [9] A. Hoorfar and A. Fathy, "Antenna Elements, Arrays and Systems for Through-Wall Imaging Radar" in M. Amin (Ed.), Through-the-Wall Radar Imaging, CRC Press, 2011.
- [10] Y. D. Zhang and A. Hunt, "Image and Localization of Behind-the-Wall Targets Using Linear and Distributed Apertures," in M. Amin (Ed.), Through-the-Wall Radar Imaging, CRC Press, 2011.
- [11] V.C. Chen, G.E. Smith, K. Woodbridge and C. J. Baker, "Radar Micro-Doppler Signatures for Characterization of Human Motion" in M. Amin (Ed.), Through-the-Wall Radar Imaging, CRC Press, 2011.
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- [13] Y. Zhang, X. Li, and M. G. Amin, "Principles and techniques of RFID positioning," in M. Bolic, D. Simplot-Ryl, and I. Stojmenovic (eds.), *RFID Systems, Research trends and challenges*, New York, NY: Wiley, 2010.
- [14] M. G. Amin and Y. Zhang, "Spatial time-frequency distributions and DOA estimation," in E. Tuncer and B. Friedlander (eds), *Classical and Modern Direction of Arrival Estimation*, Elsevier, 2009.
- [15] L. He, S. A. Kassam, F. Ahmad, and M. G. Amin, "Sparse multi-frequency waveform design for wideband imaging," in V. Amuso, S. Blunt, E. Mokole, R. Schneible and M. Wicks (Eds.), *Applications and Methods of Waveform Diversity*, SciTech Publishing, 2009.
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