

**Research Articles**

- 1049** *Luigi La Spada, Sajad Haq, and Yang Hao*  
Modeling and design for electromagnetic surface wave devices\* (doi 10.1002/2017RS006379)  
\*This article is part of a Special Section—Special Issue of the 2016 URSI Commission B International Symposium on Electromagnetic Theory
- 1058** *J. P. Younger and I. M. Reid*  
Interferometer angle-of-arrival determination using precalculated phases (doi 10.1002/2017RS006284)
- 1067** *Boris G. Shpynev*  
Refraction and Faraday rotation in the incoherent scatter radar technique (doi 10.1002/2017RS006273)
- 1081** *Rod I. Barnes, Malkiat Singh, and Fred Earl*  
An HF and lower VHF spectrum assessment system exploiting instantaneously wideband capture (doi 10.1002/2017RS006342)
- 1096** *M. Wang, Y. J. Zhao, Y. M. Jin, and Y. G. Zhou*  
Sensitivity analysis of multiport S-parameter measurements due to nonideal TRL calibration standards\* (doi 10.1002/2017RS006380)  
\*This article is part of a Special Section—Special Issue of the 2016 URSI Asia-Pacific Radio Science Conference
- 1106** *Pengfei Lyu and Makoto Ando*  
Uniform surface-to-line integral reduction of physical optics for curved surfaces by modified edge representation with higher-order correction (doi 10.1002/2016RS006147)
- 1117** *Domenico Pepe, Ilias Chlis, and Domenico Zito*  
50 GHz active-LC CMOS oscillator: Theoretical study and experimental proofs\* (doi 10.1002/2016RS006019)  
\*This article is part of a Special Section—Innovative Microwave Devices, Methods and Applications
- 1129** *Yu. K. Podlipenko and Yu. V. Shestopalov*  
Guaranteed estimation of solutions to Helmholtz transmission problems with uncertain data from their indirect noisy observations\* (doi 10.1002/2017RS006293)  
\*This article is part of a Special Section—Special Issue of the 2016 URSI Commission B International Symposium on Electromagnetic Theory
- 1140** *Dan Liu, Congsheng Li, Yangyang Kang, Zhou Zhou, Yi Xie, and Tongning Wu*  
Numerical analysis for infant's unintentional exposure to 3.5 GHz plane wave radiofrequency electromagnetic fields by field test of fifth generation wireless technologies\* (doi 10.1002/2017RS006382)  
\*This article is part of a Special Section—Special Issue of the 2016 URSI Asia-Pacific Radio Science Conference
- 1149** *Robert A. Haaser, Erin H. Lay, and William Junor*  
Analysis framework for systematically studying ionospheric response to impulsive events from below (doi 10.1002/2016RS006196)
- 1170** *Yang Song, Kainam Thomas Wong, and Fangjiong Chen*  
"Blind" calibration of vector sensors whose dipole/loop triads deviate from their nominal gains/phases/orientations/locations (doi 10.1002/2017RS006340)
- 1190** *Esayas B. Shume, Panagiotis Vergados, Attila Komjathy, Richard B. Langley, and Tibor Durgonics*  
Electron number density profiles derived from radio occultation on the CASSIOPE spacecraft (doi 10.1002/2017RS006321)
- 1200** *Ya. A. Ilyushin, R. Orosei, O. Witasse, and B. Sánchez-Cano*  
CLUSIM: A synthetic aperture radar clutter simulator for planetary exploration (doi 10.1002/2017RS006265)

- 1214** *S. Goswami, K. S. Paul, and A. Paul*  
Assessment of GPS multifrequency signal characteristics during periods of ionospheric scintillations from an anomaly crest location\* (doi 10.1002/2017RS006295)
- \*This article is part of a Special Section—URSI General Assembly and Scientific Symposium (2017)
- 1223** *Lucas Polo-López, Jorge A. Ruiz-Cruz, José R. Montejo-Garai, and Jesús M. Rebollar*  
Analysis of waveguide devices involving lateral and transverse perfect magnetic wall boundary conditions by the mode-matching method\* (doi 10.1002/2017RS006327)
- \*This article is part of a Special Section—Special Issue of the 2016 URSI Commission B International Symposium on Electromagnetic Theory
- 1235** *Salvatore Campione, Larry K. Warne, and Lorena I. Basilio*  
Dipole approximation to predict the resonances of dimers composed of dielectric resonators for directional emission\* (doi 10.1002/2017RS006274)
- \*This article is part of a Special Section—Special Issue of the 2016 URSI Commission B International Symposium on Electromagnetic Theory