

IEEE JOURNAL OF MICROWAVES INAUGURAL ISSUE TABLE OF CONTENTS

| | | |
|------------------------------------------------------|--------------------|-----|
| INTRODUCTION TO THE IEEE JOURNAL OF MICROWAVES | <i>P.H. Siegel</i> | XXX |
|------------------------------------------------------|--------------------|-----|

| | | |
|----------------------------------------------------------------|--------------------|-----|
| SPECIAL EDITORIAL ARTICLES | | |
| Microwaves are Everywhere: “CMB: Hiding in Plain Sight” | <i>P.H. Siegel</i> | XXX |
| Microwave Pioneers: John C. Mather, “A Singular Purpose” | <i>P.H. Siegel</i> | XXX |

| | | |
|---------------------------------------------------------------------------|-------------------------------------|-----|
| Microwaves in Chemistry | <i>D.R. Slocombe and A. Porch</i> | XXX |
| Instrumentation for THz Spectroscopy in the Laboratory and in Space | <i>J. Pearson, B. Drouin et al.</i> | XXX |
| Innovative RFID Sensors for Internet of Things Applications | <i>P. Mezzanotte et al.</i> | XXX |
| Sensing of Life Activities at the Human-Microwave Frontier | <i>C. Li et al.</i> | XXX |

| | | |
|---------------------------------------------------------------------------------|------------------|-----|
| SPECIAL EDITORIAL ARTICLE | | |
| On the Shoulders of Giants: Reflections on the Creators and Uses of Radio | <i>Tom Lewis</i> | XXX |

| | | |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------|-----|
| Implementation Challenges and Opportunities in Beyond-5G and 6G Communication | <i>U. Gustavsson et al.</i> | XXX |
| The Role of Millimeter-Wave Technologies in 5G/6G Wireless Communications | <i>W.Hong et al.</i> | XXX |
| Packaging and Antenna Integration for Silicon-Based Millimeter-Wave Phased Arrays: 5G and Beyond | <i>X. Gu et al.</i> | XXX |
| Automotive Radar – From First Efforts to Future Systems | <i>C. Waldschmidt et al.</i> | XXX |
| Coherent Automotive Radar Networks: The Next Generation of Radar-Based Imaging and Mapping | <i>M. Gottinger et al.</i> | XXX |
| RF Systems Design for Simultaneous Wireless Information and Power Transfer (SWIPT) in Automation and Transportation | <i>D. Masotti et al.</i> | XXX |
| Microwave Photonic Array Radars | <i>S. Pan et al.</i> | XXX |
| Microwave Imaging in Security — Two Decades of Innovation | <i>S. Ahmed</i> | XXX |
| Micrometer Sensing with Microwaves: Precise Radar Systems for Innovative Measurement Applications | <i>F. Michler et al.</i> | XXX |
| History and Innovation of Wireless Power Transfer via Microwaves | <i>N. Shinohara</i> | XXX |
| Microwave and Millimeter Wave Power Beaming | <i>C. Rodenbeck et al.</i> | XXX |
| Russian Gyrotrons: Achievements and Trends | <i>A. Litvak et al.</i> | XXX |

| | | |
|-------------------------------------------------------------------------------------------------------------|--------------------|-----|
| SPECIAL EDITORIAL ARTICLE | | |
| Carver Mead: “It’s All About Thinking,” A Personal Account Leading up to the First Microwave Transistor ... | <i>P.H. Siegel</i> | XXX |

| | | |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------|-----|
| CNTFET Technology for RF Applications: Review and Future Perspective | <i>M. Hartmann et al.</i> | XXX |
| SiGe HBTs and BiCMOS Technology for Present and Future Millimeter-wave systems | <i>T. Zimmer et al.</i> | XXX |
| Millimeter-Wave Power Amplifier Integrated Circuits for High Dynamic Range Signals | <i>H. Wang et al.</i> | XXX |
| Emerging Trends in Techniques and Technology as Applied to Filter Design | <i>R. Snyder et al.</i> | XXX |
| Substrate Integrated Transmission Lines: Review and Applications | <i>K. Wu et al.</i> | XXX |
| Connecting Chips with more than 100 GHz Bandwidth | <i>W. Heinrich et al.</i> | XXX |
| Microwave Huygen’s Metasurfaces: Fundamentals and Applications | <i>G. Eleftheriades et al.</i> | XXX |
| Microwave Superconductivity | <i>S. Anlage</i> | XXX |
| Microwaves in Quantum Computing | <i>J. Bardin et al.</i> | XXX |
| MID-Radio Telescope, Single Pixel Feed Packages for the Square Kilometer Array: An Overview | <i>A. Pellegrini et al.</i> | XXX |
| Microwave Magnetics and Considerations for Systems Design | <i>M. Geiler et al.</i> | XXX |
| Non-Magnetic Non-Reciprocal Microwave Components – State of the Art and Future Directions | <i>A. Nagulu and H. Krishnaswamy</i> | XXX |
| On the Benefits of Glide Symmetries for Microwave Devices | <i>O. Quevedo-Teruel et al.</i> | XXX |
| Sommerfeld Integrals and their Relation to the Development of Planar Microwave Devices | <i>J. Mosig and K. Michalski</i> | XXX |
| Advanced RF and Microwave Design Optimization: A Journey and a Vision of Future Trends | <i>J. Rayas-Sanchez et al.</i> | XXX |
| Simulation and Automated Modeling of Microwave Circuits: State-of-the-Art and Emerging Trends | <i>Q.J. Zhang et al.</i> | XXX |
| Supply Modulation Behavior of a Doherty Power Amplifier..... | <i>D. Fishler, Z. Popovic and T. Barton</i> | XXX |