SAFETY & EMC



Systematic Study on Physical Mechanism of Passive Intermodulation Generation



Wei.E.I.Sha

OVERVIEW

03 Systematic Study on Physical Mechanism of Passive Intermodulation Generation

Wenbo Wang, Yimin Wang, Wenchao Chen,

Wei.E.I.Sha

10 Challenges and Opportunities of RF Integrated Circuit Protection Under Strong Electromagnetic Interference

Kuiwen Xu, Jiangtao Su, Wensheng Zhao, Wenjun Li*, Lingling Sun

22 EMC Challenges of 5G to 6G Evolution

Xiangyang Duan, Wei Guo, Hao Du, Yubing Tang, Jun Ma, Jiazheng Xu

33 Research Advances of Absorptive Frequencyselective Structures and Their Applications to Antennas

Weiliang Yu, Guoqing Luo

Competent Authorities: Ministry of Industry and

Information Technology of

PRC

Sponsor: China Electronics

Standardization Institute (CESI)

Publication No: CN 11-3452/TM

ISSN 1005-9776

Editor, Publisher: SAFETY & EMC

Magazine Editorial Office

Chief Editor: Wang Shuhua
Executive Editor: Wang Shuhua
Associate Editor: Tian Ning

Address: No.1 Andingmen

Dongdajie, Beijing,

China

Post Code: 100007

Tel: +86-10-64102629 +86-10-64102630

Fax: +86-10-64102617

Email: wangsh@cesi.cn

Http://www.safetyandemc.com

ACADEMIC RESEARCH

- **43** Calculation Method for Noise of E-field Radiation Emission Test System

 Nankai Wu, Qi Xiao, Qizheng Ji, Chen Zhang
- **48** Three-phase Common-mode Choke Impedance Extraction Based on Improved OSL Calibration

Huamin Jie, Zhenyu Zhao, Kye Yak See

55 The Active EMC Method Research of Airborne RF Sensor System

Chaowen Jia, Qilun Yang*, Chen Gao

61 A Source Reconstruction Method in Shielding Based on Near-field Scanning

Qihan Xiao, Tianhao Song, Dongfeng Guo

TECHNICAL COLUMN

68 Evaluation Method of Electromagnetic Radiation Safety of Millimeter Wave Human Body Security Inspection System

Pan Huang, Haoyu Lin, Zhimin Zheng, Xiao Liu, Xiaomeng Liu, Xiaoyi He

75 Development of an Automatic Measurement System for Surge Equipment Calibration

Siyu Wang, Zhiping Meng, Xiao Xiao

SAFETY & EMC welcomes your contribution!