

# **Wideband and Multi-Band Antennas and Arrays for Civil, Security & Military Applications 2015**

IET Seminar Digests 2015/0009

London, United Kingdom  
2 December 2015

ISBN: 978-1-5108-2176-7

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571



**Some format issues inherent in the e-media version may also appear in this print version.**

Copyright© (2015) by the Institution of Engineering and Technology  
All rights reserved.

Printed by Curran Associates, Inc. (2016)

For permission requests, please contact the Institution of Engineering and Technology  
at the address below.

Institution of Engineering and Technology  
P. O. Box 96  
Stevenage, Hertfordshire  
U.K. SG1 2SD

Phone: 01-441-438-767-328-328  
Fax: 01-441-438-767-328-375

[www.theiet.org](http://www.theiet.org)

**Additional copies of this publication are available from:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: 845-758-0400  
Fax: 845-758-2633  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# TABLE OF CONTENTS

<b>3D DUAL RESONANCE, HIGH EFFICIENCY, ELECTRICALLY SMALL PLANAR INVERTED-F ANTENNA</b> .....	1
<i>S. Mufti, C. J. Smith, A. Tennant, L. Seed</i>	
<b>MIMO LTE VEHICULAR ANTENNAS ON 3D PRINTED CYLINDRICAL FORMS</b> .....	6
<i>B. Sanz-Izquierdo, S. Jun, T. B. Baydur</i>	
<b>IMPROVEMENT OF MICROSTRIP ANTENNA'S BANDWIDTH AND FABRICATION TOLERANCE AT TERAHERTZ FREQUENCY BANDS</b> .....	11
<i>M. S. Rabbani, H. Ghafouri-Shiraz</i>	
<b>PREDICTING CONFORMAL APERTURE DIRECTIVITY FOR ARBITRARY CURVED SURFACES</b> .....	14
<i>T. Pelham, G. Hilton, E. Mellios, R. Lewis</i>	
<b>Author Index</b>	