

4th Annual Seminar on Passive RF and Microwave Components 2013

IET Seminar Digests 2013/007

**Birmingham, United Kingdom
18 March 2013**

ISBN: 978-1-63439-108-5

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© (2013) by the Institution of Engineering and Technology
All rights reserved.

Printed by Curran Associates, Inc. (2014)

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

Additional copies of this publication are available from:

Curran Associates, Inc.
57 Morehouse Lane
Red Hook, NY 12571 USA
Phone: 845-758-0400
Fax: 845-758-2634
Email: curran@proceedings.com
Web: www.proceedings.com

TABLE OF CONTENTS

Development of 60 GHz Phased Antenna Arrays Using Liquid Crystal Phase-Shifters	1
<i>P. Deo, D. Mirshekar-Syahkal, L. Seddon, S. Day, F. Fernandez</i>	
Patch Antenna with Integrated Bandpass Filter	5
<i>X. Shang, M. Lancaster</i>	
Planar Gunn Diode Characterisation and Resonators	10
<i>M. Maricar, J. Glover, G. Evans, A. Khalid, V. Papageorgiou, L. Chong, G. Dunn, A. Stephen, M. Bajo, M. Kuball, D. Cumming, C. Oxley</i>	
High Order Micro-Strip Filters to Support Signal Generation and Translation	15
<i>S. Feeney, S. Salous</i>	
Synthesis of a Class of Quadrature Circuits Based on Coupled-Resonators	18
<i>V. Crestvolant, M. Lancaster</i>	
A New Power Combiner Using Aperture Coupling Technique for Push-Pull Class B Power Amplifier	22
<i>F. Zubir, P. Gardner</i>	
Author Index	