

# **IET Seminar on Wideband Receivers & Components 2008**

**IET SEMINAR DIGESTS 08/12350**

**London, United Kingdom  
7 May 2008**

**ISBN: 978-1-61567-075-8**

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

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571  
[www.proceedings.com](http://www.proceedings.com)

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

Copyright© (2008) by the Institution of Engineering and Technology  
All rights reserved.

Printed by Curran Associates, Inc. (2009)

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)

## TABLE OF CONTENTS

<b>A Broadband COTS Based Frequency Converter Module Realised on Printed Circuit Board.....</b>	1
<i>A. Ingram, A. Virdee</i>	
<b>Decade Tuning, Wide IF Instrumentation Receiver .....</b>	5
<i>D.J.F. Cletheroe</i>	
<b>Local Oscillator Synthesiser Module for Broadband Applications .....</b>	10
<i>A. Virdee, T. Richards</i>	
<b>GaN Power Transistors in Narrow and Wide Bandwidth Applications .....</b>	14
<i>P. Wright, J. Lees, P.J. Tasker, J. Benedikt</i>	
<b>A High Performance Time Domain UWB Radar Design .....</b>	15
<i>D.J. Daniels, P. Curtis, N. Hunt</i>	
<b>Monolithic Microwave Integrated Circuit Based Receivers .....</b>	19
<i>J.R. Powell, P.D. Munday, M.T. Moore, D.C. Bannister</i>	
<b>Reconfigurable Low-Power Wideband Receiver for Cosmic Noise Radiation Absorption Measurements .....</b>	24
<i>G. Dekoulis</i>	
<b>Wideband Downconverter System Design and Simulation .....</b>	31
<i>T.L. Barraclough</i>	
<b>Author Index</b>	