LIST OF PUBLICATIONS 2011

Revues internationales (avec comité de lecture) – Thème2 – RFM – 2011

[1R1]	H. Issa, J-M. Duchamp, S. Abou-Chahine, and P. Ferrari "Compact Semi Lumped Two-Pole DBR Filter with Spurious frequencies Suppression", Microwave and Optical Technology Letters, Vol. 53, No. 2, pp. 278-281, Feb. 2011.
[1R2]	X.L. Tang, E. Pistono, P. Ferrari, and J.-M. Fournier "Enhanced Performance of 60-GHz Power Amplifier by using Slow-wave Transmission Lines in 40 nm CMOS Technology ", International Journal of Microwave & Wireless Technology, Vol. x, No. x, pp. x-x, 2011.
[1R3]	H. Issa, P. Ferrari, E. Hourdakis, and A. G. Nassiopoulou "On-Chip High-Performance Millimeter-Wave Transmission Lines on Locally Grown Porous Silicon Areas", IEEE Trans. on Electron Device, Vol. 58, No. 11, pp. 3720 - 3724, Nov. 2011.
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[1R5]	M. Mabrouk, M. A. Boujemâa, F. Ndagijimana, Ph. Benech and A. Ghazel "Piezoelectric resonators for RF and microwave filters", IOP Conf. Ser.: Mater. Sci. Eng. vol. 13, No. 1, 2011.
[1R6]	T. Quémerais, L. Moquillon, Ph. Benech, J.-M. Fournier and S. Pruvost "CMOS 45 nm 3D Metal-Oxide-Metal Capacitors for Millimeter Wave Applications", Microwave and Optical Technology Letters, Vol. 53, No. 7, pp. 1476–1478, July 2011.
[1R7]	W. Sahyoun, J.M. Duchamp, Ph. Benech "Acoustic, Piezoelectric and Dielectric Nonlinearities of AlN in Coupled Resonator Filters for high RF power levels", IEEE Trans. on Ultrasonics, Ferroelectrics and Frequency control, Vol. 58, No. 10, pp. 2162-2170, Oct. 2011.
[1R8]	T. Coulot, E. Lauga, J.-M. Fournier, E. Rouat and F. Hasbani "High Power-Supply-Rejection (PSR) Low Drop-Out Regulator for Ultra Low Power Radiofrequency Functions", IET Electronics Letters, Vol. 47, No. 20, pp. 1117 - 1118, Sep. 2011.
[1R9]	T. Bertaud, C. Bermond, F. Challali, A. Goullet, C. Vallée, B.Fléchet, " Ultra wide band frequency characterization of integrated TiTaO-based MIM devices" Journal of Applied Physics, Vol. 110, Issue 4 (044110), 2011.
[1R10]	J. Roullard, S. Capraro, E. Eid, L. Cadix, C. Bermond, T. Lacrevaz, A. Farcy, B. Flechet "Quality Factor and Frequency Bandwidth of 2D Self Inductors in 3D Integration Stack", Microelectronic Engineering, Elsevier, Vol. 88, No. 5, pp. 734-738, May 2011.

[1R11]	T. Bertaud, E. Defay, C. Bermond, T. Lacrevaz, J. Abergel, B. Salem, C. Vallée, B. Flechet “Wideband frequency and in-situ characterization of Aluminium Nitride (AlN) in a Metal/Insulator/Metal (MIM) configuration” Microelectronic Engineering, Vol. 88, No. 5, pp. 564-568, May 2011.
[1R12]	E. Eid, T. Lacrevaz, C. Bermond, S. de Rivaz, S. Capraro, J. Roullard, L. Cadix, B. Fléchet, A. Farcy, P. Ancey, F. Calmon, O. Valorge, P. Leduc, “Characterization and Modelling of Substrate Coupling Effects in 3D Integrated Circuit Stacking”, Microelectronic Engineering, Vol.88, No. 5, pp. 729-733, May 2011.
[1R13]	J. Roullard, S. Capraro, T. Lacrevaz, M. Gallitre, C. Bermond, A. Farcy, B. Fléchet “Characteristic Impedance Extraction of Embedded and Integrated Interconnects” European Physical Journal - Applied Physics, Vol. 53, No. 3, pp. 1-6, March 2011.
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[2CI1]	A.-L. Franc, E. Pistono, N. Corrao, D. Gloria, and P. Ferrari, "Compact high-Q, low-loss mmW transmission lines and power splitters in RF CMOS technology", Proc. IEEE International Microwave Theory and Techniques Symposium, MTT-S 2011, Baltimore, USA, June 5-10, 2011.
[2CI2]	A. Romanescu, P. Fonteneau, C.-A. Legrand, P. Ferrari, J.-D. Arnould, J.-R. Manouvrier, H. Beckrich-Ros, "Modeling a SCR-based protection structure for RF-ESD co-design simulations", Proc. IEEE International Microwave Theory and Techniques Symposium, MTT-S 2011, Baltimore, USA, June 5-10, 2011.
[2CI3]	A. Romanescu, P. Fonteneau, C.-A. Legrand, P. Ferrari, J.-D. Arnould, J.-R. Manouvrier, H. Beckrich-Ros "Scalable Modeling Studies on the SCR ESD Protection Device", Proc. of the 33th EOS/ESD 2011 Symposium, Anaheim, USA, Sept. 11-16, 2011.

[2CI4]	G. Rehder, B. Blampey, T. Vo, and P. Ferrari "Distributed MEMS tunable phase shifters on CMOS technology for millimeter wave frequencies", Proc. of the 12th International Symposium on RF MEMS and RF Microsystems, Athens, Greece, June 27-29, 2011.
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[2CI6]	V. Freitas, J.-D. Arnould, and P. Ferrari "Theoretical Analysis and Design of Efficient Tunable Matching Networks", International Microwave and Optical Conference, IMOC 2011, Natal, Brazil, Oct. 29-Nov.1, 2011.
[2CI7]	H. Issa, J.-M. Duchamp, S. Abou-Chahine, and P. Ferrari "Compact Semi-Lumped Two-Pole DBR Filter with Spurious Suppression", Asia-Pacific Microwave Conference, APMC 2011, Melbourne, Australia, Dec. 5-8, 2011.
[2CI8]	N. Boudou, A. Monfardini, C. Hoffmann, F. Podevin, P. Xavier and M. Calvol "Development of kinetic inductance stationary waves integrated Fourier transform spectrometry (SWIFTS)", 14th Workshop on Low Temperature Detectors, Heidelberg, Germany, August, 1-5, 2011.
[2CI9]	W. Sahyoun, Ph. Benech, J.M. Duchamp "Industrial combining RF and system test of microwave devices using QPSK modulation", Proc. IEEE International Microwave Theory and Techniques Symposium, MTT-S 2011, Baltimore, USA, June 5-10, 2011.
[2CI10]	M. Ould Elhassen, M. Mabrouk and Ph. Benech "Theoretical and Experimental Charaterization of Distibuted Analogue Phase Shifter", MMS 2011, September 08-10, 2011, Hammamet, Tunisia
[2CI11]	M. Ould Elhassen, M. Mabrouk and Ph. Benech "Comparative Measurement of Tapering input Effect on Tunable Distributed Phase Shifter Performances", MMS 2011, September 08-10, 2011, Hammamet, Tunisia
[2CI12]	W. Sahyoun, Ph. Benech, J.M. Duchamp "Nonlinear Behavior of AlN in BAW and CRF devices for high RF Electric Field", European Microwave Conference (EuMC 2011), October 9-14, 2011, Manchester, UK.
[2CI13]	E. Novakov, "A Low Complexity Ultra-Wideband, Orthogonal Frequency Division Multiplexing Communication System", XXX General Assembly and Scientific Symposium, International Union of Radio Science (URSI), Istanbul, Turkey August 13-20, 2011.
[2CI14]	E. Novakov, "Ultra-Wideband Communication System with Transmitting Pulses Shaped by Orthogonal Frequencies Signals", IEEE International Conference on Wireless & Mobile Computing, Networking and Communications (WiMOB 2011), Shanghai, China, October 10-12, 2011.

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[2CI16]	V. Grennerat, E. Chamberod, J.-M. Boggetto, P. Xavier, "Educational equipment : a sun tracking photovoltaic system for a transversal teaching approach", EVER Conference 2011, Monaco, April, 1-3, 2011.
[2CI17]	F.Belmas, F.Hameau, J-M.Fournier, "A 1.3mW 20dB gain low power inductorless LNA with 4dB Noise Figure for 2.45GHz ISM band," Radio Frequency Integrated Circuit (RFIC), IEEE International Symposium on, 2011, pp. 1-4, 5-7 June 2011
[2CI18]	F. Sonnerat, R. Debroucke, Y. Morandini, D. Gloria, J.-D. Arnould, "Silicon High Frequency Test Structures Improvement for Millimeter Wave Varactors Characterization Optimization and Modeling", IEEE International Conference on Microelectronic Test Structures (ICMTS), Amsterdam, April 2011
[2CI19]	T. Simonot, J.-D. Arnould, N. Rouger, J.-C. Crebier, "Design and characterization of an integrated coreless transformer onto a CMOS gate driver for gate signal insulation purposes", IEEE International Symposium on Power Semiconductor Devices and ICs (ISPSD), San Diego, Mai 2011
[2CI20]	T. Shao, F. Paresys, Y. Le Guennec, G. Maury, N. Corrao, and B. Cabon, "Simultaneous Transmission of Gigabit Wireline Signal and ECMA 387 mmW over Fiber Using a Single MZM in Multi-Band Modulation," 2011 IEEE International Topical Meeting on Microwave Photonics, Singapore, Oct. 2011.
[2CI21]	Z. Bouhamri, V. Dobremez, Y. Le Guennec, J-M Duchamp, G. Maury, B. Cabon, "Multistandard RoF bus for in-building networks," Microwave Photonics, 2011 IEEE International Topical Meeting on, conference proceedings, Singapore, Oct. 2011.
[2CI22]	L. Fourneaud, T. Lacrevaz, J. Charbonnier, C. Fuchs, A. Farcy, C. Bermond, E. Eid, J. Roullard, B.Flechet, "Extraction of Equivalent High Frequency Models for TSV and RDL Interconnects Embedded in Stacks of the 3D Integration Technology" IEEE Signal Propagation on Interconnects, May 8-11, 2011, Naples, Italy
[2CI23]	J. Roullard, S. Capraro, T. Lacrevaz, C. Bermond, A. Farcy, J. Charbonnier, B. Flechet, "Electrical Characterization and Impact on Signal Integrity of New Basic Interconnection Elements Inside 3D Integrated Circuits", IEEE 61th Electronic Components and Technology Conference (ECTC2011), June 1-3, 2011, Lake Buena Vista, USA
[2CI24]	M. Gorisse, T. Bertaud, A. Reinhardt, M. Borel, C. Billard, E. Defaÿ, T. Lacrevaz, C. Bermond "Lateral Field Excitation of thickness shear modes in an AlN membrane" IEEE International Frequency Control Symposium and European Frequency and Time Forum (IFCS 2011), May 2-5, 2011, San Francisco, USA

[2CI25]	B. Reig, P. Renaux, D. Mercier, C. Mounet, H. Sibuet, C. Ferrandon, S. Joblot, P. Bar, P. Coudrain, J. Carpentier, B. Flechet, T. Lacrevaz “Electrical Characterization of Millimeter-Wave Interconnects on Low-k and Low-loss Oxides for Advanced 3D Silicon Interposers” European Microwave Conference (EuMC 2011), October 9-14, 2011, Manchester, UK.
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[2CN1]	A.-L. Franc, E. Pistono, et P. Ferrari "Caractérisation de couches minces de matériaux diélectriques de la RF au millimétrique à l’aide de lignes à ondes lentes", 17èmes journées nationales micro-ondes, JNM’11, Brest, France, 18-20 Mai 2011.
[2CN2]	W. Sahyoun, A. Jrad, J.-M. Duchamp, et P. Ferrari "Diviseur de puissance miniature et accordable en puissance", 17èmes journées nationales micro-ondes, JNM’11, Brest, France, 18-20 Mai 2011.

[2CN3]	H. Issa, E. Pistono, A. Jrad, et P. Ferrari "Filtres compacts à base de résonateurs couplés en parallèle chargés par des stubs en court-circuit", 17èmes journées nationales micro-ondes, JNM'11, Brest, France, 18-20 Mai 2011.
[2CN4]	A.-L. Franc, E. Pistono, D. Gloria, et P. Ferrari "Influence des « dummies » dans des lignes à ondes lentes à fort facteur de qualité en technologie BiCMOS9-MW", 17èmes journées nationales micro-ondes, JNM'11, Brest, France, 18-20 Mai 2011.
[2CN5]	V. Freitas, G. Paiva-Guedes, J.-D. Arnould, et P. Ferrari "Méthode de synthèse et conception de réseaux d'adaptation accordables et performants pour des applications à 2,4 GHz", 17èmes journées nationales micro-ondes, JNM'11, Brest, France, 18-20 Mai 2011.
[2CN6]	A. L.C. Serrano, F. S. Correra, T.-P. Vuong, et P. Ferrari "Filtre patch triangulaire avec contrôle indépendant de la fréquence centrale et de la bande passante", 17èmes journées nationales micro-ondes, JNM'11, Brest, France, 18-20 Mai 2011.
[2CN7]	G. Rehder, T. Vo, A. Bouchard, et P. Ferrari "Déphaseur 60 GHz compact et accordable en technologie CMOS - MEMS distribués", 17èmes journées nationales micro-ondes, JNM'11, Brest, France, 18-20 Mai 2011.
[2CN8]	H. Issa, P. Ferrari, M. Hourdakis, et A. Nassiopulou "Lignes de propagation hautes performances sur silicium poreux pour des applications millimétriques", 17èmes journées nationales micro-ondes, JNM'11, Brest, France, 18-20 Mai 2011.
[2CN9]	A.-L. Franc, E. Pistono, D. Gloria, et P. Ferrari "Diviseur de Wilkinson CMOS compact à 92 GHz à base de lignes à ondes lentes S-CPW", 17èmes journées nationales micro-ondes, JNM'11, Brest, France, 18-20 Mai 2011.
[2CN10]	H. Issa, J.-M. Duchamp, et P. Ferrari "Filtre DBR miniature avec suppression des lobes secondaires", 17èmes journées nationales micro-ondes, JNM'11, Brest, France, 18-20 Mai 2011.
[2CN11]	X. Tang, E. Pistono, J.-M. Fournier, et P. Ferrari "Apport des lignes à ondes lentes S-CPW sur les performances d'amplificateurs de puissance à 60 GHz en technologie CMOS 45 nm", 17èmes journées nationales micro-ondes, JNM'11, Brest, France, 18-20 Mai 2011.
[2CN12]	A. Romanescu, P. Ferrari, J.-D. Arnould, P. Fonteneau, C.-A. Legrand, H. Beckrich-Ros, J.-R. Manouvrier "Modélisation à Haute Fréquence de Dispositifs de Protection Contre la Décharge Electrostatique", 17èmes journées nationales micro-ondes, JNM'11, Brest, France, 18-20 Mai 2011.
[2CN13]	Simon Hemour, Florence Podevin, Pascal Xavier « Amélioration de la dynamique d'un corrélateur analogique 300 MHz-5 GHz par correction mono-harmonique », JNM'11, Brest, France, 18-20 Mai 2011.

[2CN14]	W. Sahyoun, Ph. Benech, J.M. Duchamp "Nouvelle méthode de test de dispositifs RF basée sur l'utilisation de modulations numériques", 17èmes JNM, 18-20 Mai 2011, Brest, France.
[2CN15]	W. Sahyoun, Ph. Benech, J.M. Duchamp "Modèle large bande des filtres acoustiques CRF caractérisant les restrictions des mesures RF", 17èmes JNM, 18-20 Mai 2011, Brest, France.
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[2CN17]	Z. Bouhamri, I. Cherkawi, Y. Le Guennec, J-Marc Duchamp, G. Maury B. Cabon, "Réalisation et étude d'un front-end RF pour application bas-coût et multi-standards pour radio sur fibre", 17èmes journées nationales micro-ondes, JNM'11, Brest, France, 18-20 Mai 2011.
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[2CN20]	J. Roullard, S. Capraro, C. Bermond, A. Farcy, B. Fléchet, « Caractérisation et optimisation des performances RF des interconnexions pour les architectures 3D de circuits intégrés », 7e Journées Franco-Maghrébines des Microondes e Applications, 16-18 mars 2011, Tanger, Maroc
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[2CN22]	L.Cadix, C. Bermond, A. Farcy, P. Leduc, L.L. Chapellon, B. Fléchet « Caractérisation et modélisation microondes des vias traversant le silicium (TSV) dans les circuits intégrés 3D », 17èmes journées nationales micro-ondes, JNM'11, Brest, France, 18-20 Mai 2011.
[2CN23]	T. Bertaud, C. Bermond, S. Blonkowski, A. Goullet, C. Vallée, A. Farcy, T. Lacrevaz, B. Fléchet « Caractérisation très large bande des oxydes ZrO_2 et TiTaO à permittivité élevée pour la réalisation de capacités MIM RF intégrées », 17èmes journées nationales micro-ondes, JNM'11, Brest, France, 18-20 Mai 2011.
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