

PhD thesis

P. Rykaczewski:
Quadratureempfänger für Software Defined Radios: Kompensation von Gleichlauf Fehlern
Universität Karlsruhe (TH), Karlsruhe, June 2006, ISSN 1433-3821 (in German)

Articles in scientific journals

A. Witzki (interview with P. Rykaczewski et al.):
Vielfarbig unterwegs
Funkschau, Oct. 2009, issue 20/2009 (interview on WDM, in German)

P. Rykaczewski, M. Valkama, M. Renfors:
On the Connection of I/Q Imbalance and Channel Equalization in Direct-Conversion Transceivers
IEEE Transactions on Vehicular Technology, May 2008, vol. 57, issue 3

P. Rykaczewski, D. Pieńkowski, R. Circa, B. Steinke:
Signal Path Optimization in Software Defined Radio Systems
IEEE Transactions on Microwave Theory and Techniques
Special Issue on Multifunctional RF Systems, March 2005, vol. 53, issue 3

Papers presented at scientific and business conferences

P. Rykaczewski, F. Jondral:
Blind I/Q Imbalance Compensation in Multipath Environments
IEEE Int'l Symp. on Circuits and Systems, New Orleans, LA, May 2007 (invited paper)

J. Elsner, P. Rykaczewski, C. Körner, F. Jondral:
Orthogonal Complex Hadamard Spreading Codes for I/Q Imbalance Mitigation in MC-CDMA Systems
65th IEEE Vehicular Technology Conf., Dublin, Apr. 2007

M. Przybylik, P. Rykaczewski:
Kształtowanie się rynku energii w perspektywie średnio-okresowej
Energetyka 2007 i przedsiębiorstwa użyteczności publicznej: IT w służbie optymalizacji procesów gospodarczych, Warsaw, Feb. 2007 (invited speech on the developments in the energy sector, in Polish)

P. Rykaczewski, M. Valkama, M. Renfors, F. Jondral:
Non-Data-Aided I/Q Imbalance Compensation Using Measured Receiver Front-End Signals
17th Annual IEEE Int'l Symp. on Personal, Indoor and Mobile Radio Communications, Helsinki, Sep. 2006

P. Rykaczewski, F. Jondral:
Impact of Dynamic DC Offset on 3G and WLAN
16th Annual MPRG Symp. on Wireless Personal Communications, Blacksburg, VA, June 2006

P. Rykaczewski, M. Valkama, M. Renfors:
Analytical Approach to I/Q Imbalance in OFDM, CDMA and MC-CDMA Based Systems
IEEE Radio & Wireless Symp., San Diego, CA, Jan. 2006

P. Rykaczewski, F. Jondral:
Open Source SCA as a Reconfigurable Platform for WLAN and 3G
15th Annual MPRG Symp. on Wireless Personal Communications, Blacksburg, VA, June 2005

P. Rykaczewski, J. Brakensiek, F. Jondral:
Decision Directed Methods of I/Q Imbalance Compensation in OFDM Systems
60th IEEE Vehicular Technology Conf., Los Angeles, CA, Sep. 2004

P. Rykaczewski, I. Martoyo, Z. Liu, F. Jondral:
Multimode Detector and I/Q Imbalance Compensator in a Software Defined Radio
IEEE Radio and Wireless Conf., Atlanta, GA, Sep. 2004

P. Rykaczewski, J. Brakensiek, F. Jondral:
Towards an Analytical Model of I/Q Imbalance in OFDM Based Direct Conversion Receivers
59th IEEE Vehicular Technology Conf., Milano, May 2004

P. Rykaczewski, V. Blaschke, F. Jondral:
I/Q Imbalance Compensation for Software Defined Radio OFDM Based Direct Conversion Receivers
8th Int'l OFDM Workshop, Hamburg, Sep. 2003

G. Böck, D. Pieńkowski, R. Circa, M. Otte, B. Heyne, P. Rykaczewski, R. Wittmann, R. Kakerow:
RF Front-end Technology for Reconfigurable Mobile Systems
Int'l Microwave and Optoelectronics Conf., Foz do Iguacu, Sep. 2003