

The design of a mobile radio receiver using a direct conversion architecture

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Adaptive compensation for imbalance and offset losses in direct conversion transceivers

JK Cavers, MW Liao - IEEE transactions on vehicular ..., 1993 - [ieeexplore.ieee.org](#)

The current interest in linear modulation and multilevel signals has resulted in an emphasis on DSP implementations to achieve precision signal manipulation. However, most ...

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A 2-GHz wide-band direct conversion receiver for WCDMA applications

A Parssinen, J Jussila, J Ryyanen... - IEEE Journal of Solid ..., 1999 - [ieeexplore.ieee.org](#)

A 2-GHz direct conversion receiver for third-generation mobile communications using wide-band code division multiple access achieves-114-dBm sensitivity for 128-kb/s data at 4.096 ...

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DC offset canceller in a direct conversion receiver for QPSK signal reception

H Yoshida, H Tsurumi, Y Suzuki - Ninth IEEE International ..., 1998 - [ieeexplore.ieee.org](#)

This paper presents a method to remove the DC offset which degrades the performance of a direct conversion receiver for burst mode QPSK signals. A canceller constructed from analog ...

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A novel digital FM receiver for mobile and personal communications

HM Kwon, KB Lee - IEEE Transactions on Communications, 1996 - [ieeexplore.ieee.org](#)

A digital baseband receiver called zero-intermediate frequency zero-crossing demodulator (ZIFZCD) was developed for digital FM signal detection. ZIFZCD is applicable to many ...

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Performance of a direct conversion receiver with pi/4-DQPSK modulated signal

K Anvari, M Kaube, B Hriskevich - [1991 Proceedings] 41st ..., 1991 - [ieeexplore.ieee.org](#)

Analog implementation of direct conversion receivers suffers from a variety of detriments such as DC offset, which can be caused by the self-mixing of on and off channel signals ...

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A DSP-based alternative to direct conversion receivers for digital mobile communications

JK Cavers, SP Stapleton - [Proceedings] GLOBECOM'90: IEEE ..., 1990 - [ieeexplore.ieee.org](#)

The authors describe a digital conversion receiver featuring digitization at a low IF (intermediate frequency), followed by DSP (digital signal processing)-based extraction of the ...

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A new incoherent direct conversion receiver

G Schultes, AL Scholtz, E Bonek... - 40th IEEE Conference ..., 1990 - [ieeexplore.ieee.org](#)

A novel type of noncoherent homodyne receiver is presented. It is designed for low-cost mobile communication applications in the upper UHF area. The receiver operates on digital ...

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A new approach to eliminate the DC offset in a TDMA direct conversion receiver

B Lindquist, M Isberg, PW Dent - IEEE 43rd Vehicular ..., 1993 - [ieeexplore.ieee.org](#)

A new method to overcome the problem with the DC offset in a direct conversion receiver which operates discontinuously is introduced. Instead of using some kind of DC blocking ...

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Zero-crossing baseband demodulator

EKB Lee - Proceedings of 6th International Symposium on ..., 1995 - [ieeexplore.ieee.org](#)

In this paper, a new, patent pending, digital baseband demodulator which is cost-effective, low-power, and easy to manufacture, is presented. Unlike conventional baseband digital ...

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Low-cost direct conversion receiver structures for TDMA mobile communications

G Schultes, E Bonek, AL Scholtz... - ... Conference on Mobile ..., 1991 - [ieeexplore.ieee.org](#)

Future public land mobile telecommunication systems (FPLMTS) with robust digital transmission will require cheap, small, and low-power mobile terminals. This goal can be ...

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VLSI low-power digital signal processing

EN Farag - 1997 - uwspace.uwaterloo.ca

This thesis reports on new high-level low-power design techniques for digital signal processing for wireless portable systems. Through proper choice and optimization of an ...

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A minimalist approach to receiver architecture

O Collins - JPL, The Telecommunications and Data Acquisition ..., 1991 - ntrs.nasa.gov

New signal processing techniques are described for Deep Space Network radios and a proposed receiver architecture is presented, as well as experimental results on this new ...

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The direct conversion receiver: analysis and design of the front-end components

P Estabrook - 1989 - search.proquest.com

This thesis discusses the design of a direct conversion receiver. This receiver architecture is intended for applications where single channel reception with low cost compact transceivers ...

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Recent Trends and Future Directions in Mobile Radio Transceiver Technologies

HJ Choi, SK Kwan - 대한전자공학회 워크샵, 1996 - dbpia.co.kr

In this paper, we briefly review the current status and future directions in mobile radio transmitter and receiver technologies. In particular, the emphasis is placed upon the ...

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Frequency/DC drift compensation for noncoherent GMSK receivers

WS Djen - 1993 - University of California, Davis

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Compensation for Error of Quadrature Coherent Detector in Frequency Direct Conversion Receiver

JK Baek, YK Chin - ICEIC: International Conference on Electronics ..., 1998 - dbpia.co.kr

In this study, a method of error compensation for channel gain imbalance, phase imbalance and local oscillator leakage in the modulator of frequency direct conversion is suggested. By ...

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