Study of Complex Multi-Bandpass DWA algorithm for I-Q Signal Generation

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Objective
High quality I,Q signal generation method suitable for advanced VLSI technology implementation

Approach
Digital-centric techniques

ΔΣ modulation
Complex signal processing

Data-weighted averaging algorithm

Application
- Receiver IC testing
- Transmitter IC key component

Result
Verified with simulation

In-phase

Quadrature phase