

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

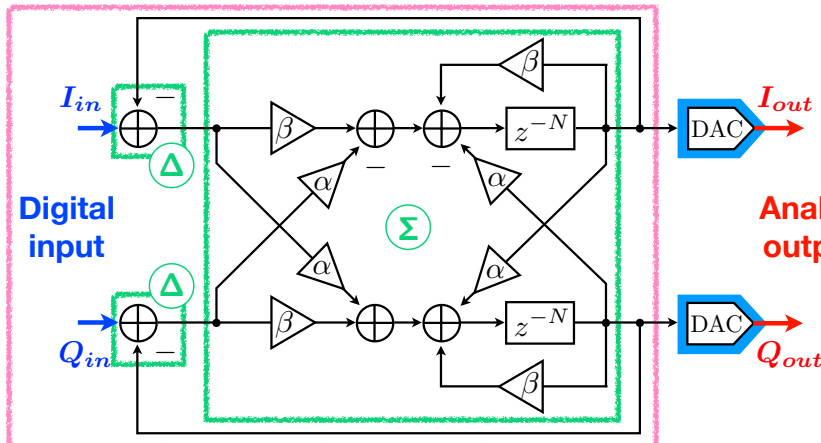
Approach

Digital-centric techniques

$\Delta\Sigma$ modulation

Complex signal processing

Data-weighted averaging algorithm



Application

- Receiver IC testing
- Transmitter IC key component

Result

Verified with simulation

In-phase

Quadrature
phase

