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Autore	Kroupa Venceslav F. <1923->
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3.1.2 Two RC Sections; 3.1.3 Active Second-order Low-pass Filter; 3.1.4 Twin-T RC Filter; 3.1.5 PLLs with a Selective Filter in the Feedback Path; 3.1.6 Time Delays in PLLs
3.2 Higher-order Type 2 PLLs 3.2.1 Third-order Loops: Lag-lead Filter with Additional RC Section; 3.2.2 Third-order Loop: Second-order Lag Filter Plus RC Section; 3.2.3 Fourth-order Loops; 3.2.4 Fifth-order Loops; 3.3 PLLs with Transmission Blocks in the Feedback Path; 3.3.1 Divider in the Feedback Path; 3.3.2 IF Filter in the Feedback Path; 3.3.3 IF Filter and Divider in the Feedback Path; 3.4 Sampled Higher-order Loops; 3.4.1 Third-order Loops with the Current Output Phase Detector; 3.5 Higher-order Loops of Type 3; 3.6 Computer Design of a Higher-order PLL; References
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Sommario/riassunto

Phase lock loop frequency synthesis finds uses in a myriad of wireless applications - from local oscillators for receivers and transmitters to high performance RF test equipment. As the security and reliability of mobile communication transmissions have gained importance, PLL and frequency synthesisers have become increasingly topical subjects. Phase Lock Loops & Frequency Synthesis examines the various components that make up the phase lock loop design, including oscillators (crystal, voltage controlled), dividers and phase detectors. Interaction amongst the various components are also dis
