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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 PLLs3.2.1 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
4 Stability of the PLL Systems4.1 Hurwitz Criterion of Stability; 4.2 Computation of the Roots of the Polynomial P(s); 4.3 Expansion of the Function 1/[1 + G(s)] into a Sum of Simple Fractions; 4.3.1 Polynomial S (s) Contains Simple Roots Only; 4.3.2 Polynomial S(s) Contains a Pair of Complex Roots; 4.3.3 Polynomial S(s) Contains Multiple-order Roots; 4.4 The Root-locus Method; 4.5 Frequency Analysis of the Transfer Functions - Bode Plots; 4.5.1 Bode Plots; 4.5.2 Polar Diagrams; 4.6 Nyquist Criterion of Stability; 4.7 The Effective Damping Factor; 4.8 Appendix; References; 5 Tracking
5.1 Transients in PLLs5.1.1 Transients in First-order PLLs; 5.1.2 Transients in Second-order PLLs; 5.1.3 Transients in Higher-order Loops; 5.2 Periodic Changes; 5.2.1 Phase Modulation of the Input Signal; 5.2.2 Frequency Modulation of the Input Signal; 5.3 Discrete Spurious Signals; 5.3.1 Small Discrete Spurious Signals at the Input; 5.3.2 Small Spurious Signals at the Output of the Phase Detector; 5.3.3 Small Spurious Signals at the Output of the PLLs; References; 6 Working Ranges of PLLs; 6.1 Hold-in Range; 6.1.1 Phase Detector with the Sine Wave Output; 6.1.2 The PD with Triangular Output
6.1.3 The PD with a Sawtooth Wave Output

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

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Titolo	When these things begin : conversations with Michel Treguer / / Rene Girard ; translated by Trevor Cribben Merrill
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Collana	Studies in violence, mimesis, and culture
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Nota di contenuto	Contents; Introduction; Chapter 1. A First Overview: Here and Now; Chapter 2. Mimetic Desire: Shakespeare rather than Plato; Chapter 3. The Mimetic Crisis: Sacrificial Worlds; Chapter 4. The Bible; Chapter 5. Christ (Orders and Disorders); Chapter 6. A Return to Imitation; Chapter 7. Science; Chapter 8. The One and the Many; Chapter 9. Democracy; Chapter 10. God, Freedom; Chapter 11. Freud, and a Few Others; Chapter 12. A Method, a Life, a Man; Notes; Index
Sommario/riassunto	In this lively series of conversations with writer Michel Treguer, Rene Girard revisits the major concepts of mimetic theory and explores science, democracy, and the nature of God and freedom. Girard affirms that "our unprecedented present is incomprehensible without Christianity." Globalization has unified the world, yet civil war and terrorism persist despite free trade and economic growth. Because of mimetic desire and the rivalry it generates, asserts Girard, "whether we're talking about marriage, friendship, professional relationships, issues with neighbors or matters of national