



## SYNTHESIS AND ANALYSIS OF A FEEDBACK CONTROL SYSTEM

http://www.firstlight.cn 2007-08-07

In this paper, supposing that the received signals at the input are of the formv(t)= $s_1[t, x_1(t)]s_2[t, x_2(t)]+n(t)$  where  $s_i$  are FM si gnals (i=1, 2), a novel cross-coupled phase-locked loop (CCPLL(M)) and its mathematical model are obtained. The global qualitative structur al analysis of the mathematical model of the first-order loop, the acquisition region and synchronization region of the first-order loop, and the synchronization region of the second-order loop are obtained.

<u>存档文本</u>

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