

**10.7-MHz FULLY-BALANCED, HIGH-Q,  
WIDE-DYNAMIC-RANGE, CURRENT-TUNABLE  
Gm-C BADPASS FILTERS**

A Dissertation Presented

by

Worawat Sa-ngiamvibool

Doctor of Philosophy

School of Communications, Instrumentation & Control Systems  
Sirindhorn International Institute of Technology  
Thammasat University

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