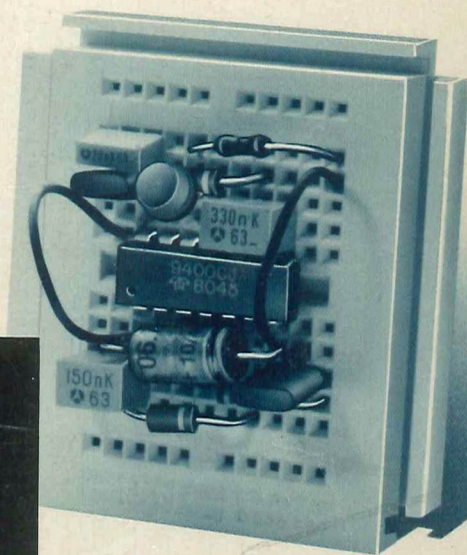
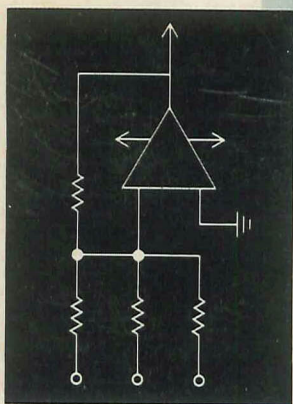


# Engineer's Mini-Notebook

Op Amp  
IC Circuits



Forrest M. Mims III

# ENGINEER'S MINI-NOTEBOOK OP-AMP CIRCUITS

BY

FORREST M. MIMS, III

CONTRIBUTING EDITOR  
MODERN ELECTRONICS

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## HISTORICAL NOTE

THE OPERATIONAL AMPLIFIER WAS DEVELOPED FOR USE IN ANALOG COMPUTERS IN THE 1940s. EARLY OP-AMPS USED VACUUM TUBES AND WERE LARGE IN SIZE AND CONSUMED CONSIDERABLE POWER. IN 1967 FAIRCHILD SEMICONDUCTOR INTRODUCED THE FIRST INTEGRATED CIRCUIT OP-AMP. TODAY'S IC OP-AMPS ARE FAR SUPERIOR TO THEIR VACUUM TUBE PREDECESSORS. AND THEY ARE MUCH SMALLER AND CAN BE PURCHASED FOR AS LITTLE AS A DOLLAR OR TWO.

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