## MASSACHUSETTS INSTITUTE OF TECHNOLOGY RESEARCH LABORATORY OF ELECTRONICS

## QUARTERLY PROGRESS REPORT

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## Introduction

This report, the forty-eighth in a series of quarterly progress reports issued by the Research Laboratory of Electronics, contains a review of the research activities of the Laboratory for the three-month period ending November 30, 1957. Since this is a preliminary report no results should be considered final.

Following our custom of the past several years, in this issue we preface the report of each research group with a statement of the objectives of the group. These summaries of our aims are presented in an effort to give perspective to the detailed reports of this and ensuing quarters. .