

## SECTION I GENERAL INFORMATION

### 1-1. INTRODUCTION

1-2. This operating manual contains the information required to install, operate, and test the Hewlett-Packard Model 4192A LF Impedance Analyzer. Figure 1-1 shows the instrument and supplied accessories. This section covers specifications, instrument identification, description, options, accessories, and other basic information.

1-3. Listed on the title page of this manual is a microfiche part number. This number can be used to order 4 X 6 inch microfilm transparencies of the manual. Each microfiche contains up to 60 photo-duplicates of the manual pages. The microfiche package also includes the latest manual changes supplement as well as all pertinent service notes. To order an additional manual, use the part number listed on the title page of this manual.

### 1-4. DESCRIPTION

1-5. The HP Model 4192A LF Impedance Analyzer is a fully automatic, high performance test instrument designed to measure a wide range of impedance parameters as well as gain, phase, and group delay. The 4192A improves efficiency and quality in the development and production of many types of complex components, semiconductors, and materials. Complete network analysis of devices such as filters, crystals and audio/video equipment, plus evaluation of the impedance characteristics of their circuit components, can be performed. These tests can be performed using test signals equivalent to those found under actual operating conditions. The two measurement display sections, DISPLAY A and DISPLAY B, provide direct readout of the selected meas-



Figure 1-1. Model 4192A and Accessories

# Hewlett Packard 4192a Manual

**Lauren Gardner**



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