

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-

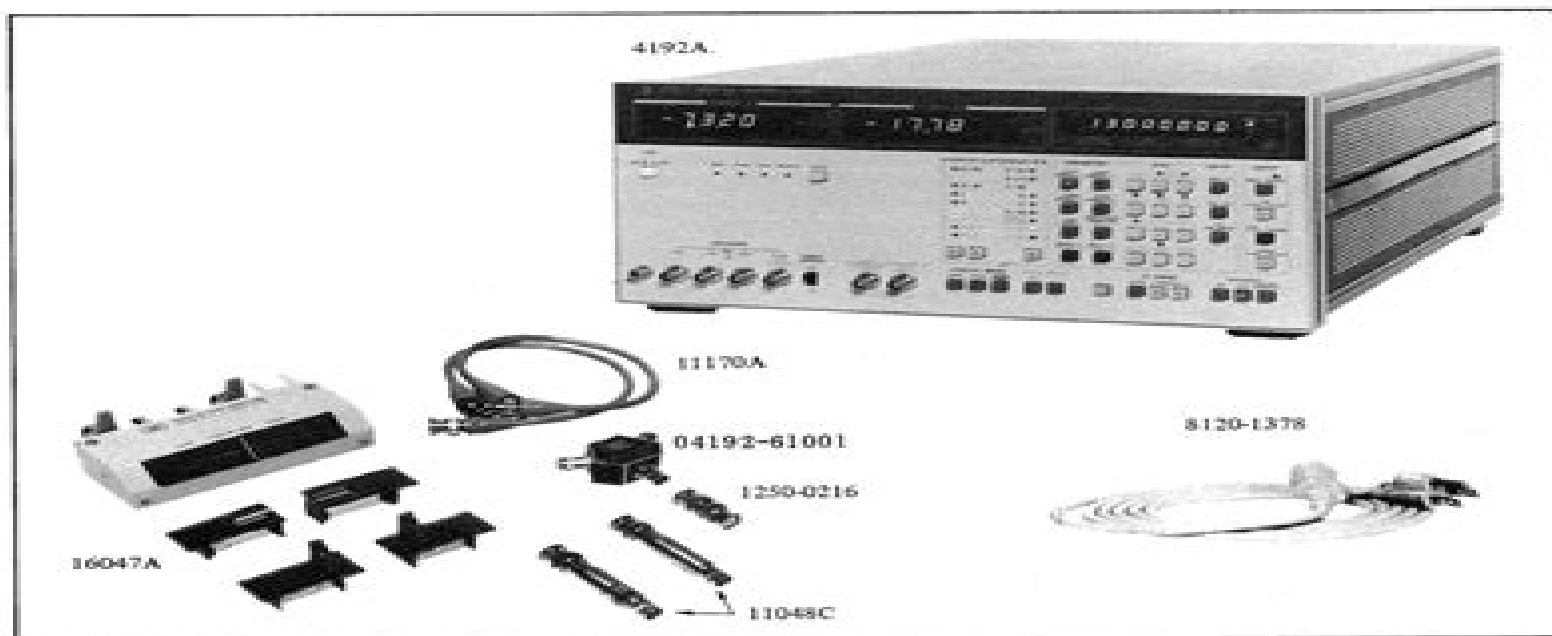
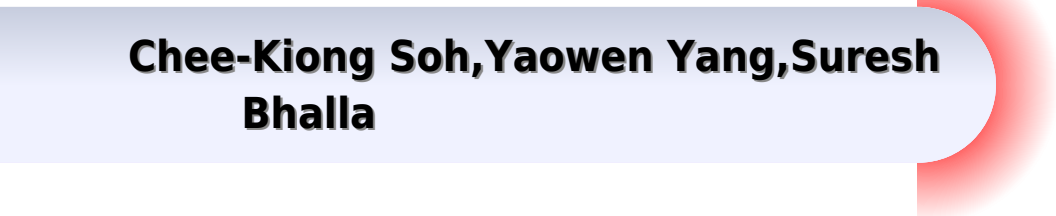


Figure 1-1. Model 4192A and Accessories

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**Chee-Kiong Soh, Yaowen Yang, Suresh
Bhalla**



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Piezoelectric Patch Sensors for Structural Integrity Monitoring of Composite-Upgraded Masonry and Concrete Structures , **Piezoelectric Materials** Suresh Bhalla, Sumedha Moharana, Visalakshi Talakokula, Naveet Kaur, 2017-02-06 Piezoelectric materials are attracting significant research efforts and resources worldwide The major thrust areas include structural health monitoring bio mechanics bio medicine and energy harvesting Engineering and technological applications of this smart material warrants multi dimensional theoretical and experimental knowledge and expertise in fields of mechanics instrumentation digital electronics and information technology over and above the specific domain knowledge This book presents from theory to practice the application of piezoelectric smart materials in engineering domains such as structural health monitoring SHM bio mechanics bio medical engineering and energy harvesting **Smart Materials in Structural Health Monitoring, Control and Biomechanics** Chee-Kiong Soh, Yaowen Yang, Suresh Bhalla, 2012-12-03 Smart Materials in Structural Health Monitoring Control and Biomechanics presents the latest developments in structural health monitoring vibration control and biomechanics using smart materials The book mainly focuses on piezoelectric fibre optic and ionic polymer metal composite materials It introduces concepts from the very basics and leads to advanced modelling analytical numerical practical aspects including software hardware issues and case studies spanning civil mechanical and aerospace structures including bridges rocks and underground structures This book is intended for practicing engineers researchers from academic and R D institutions and postgraduate students in the fields of smart materials and structures structural health monitoring vibration control and biomedical engineering Professor Chee Kiong Soh and Associate Professor Yaowen Yang both work at the School of Civil and Environmental Engineering Nanyang Technological University Singapore Dr Suresh Bhalla is an Associate Professor at the Department of Civil Engineering Indian Institute of Technology Delhi India *Electronic Design* ,1981 *Earthquakes and Health Monitoring of Civil Structures* Mihail Garevski, 2012-12-11 Health monitoring of civil structures HMS is a new discipline which contributes to successful and on time detection of damages to structures This book is a collection of chapters on different topics written by leading scientists in the field It is primarily focused on the latest achievements in monitoring the earthquake effect upon the health of civil structures The first chapter of the book deals with the geotechnical and structural aspects of the 2010 2011 Christchurch earthquakes Further chapters are dedicated to the latest HMS techniques of identification of damage to structures caused by earthquakes Real time damage detection as well as sensors and acquisition systems used for that purpose are presented The attention is focused on automated modal analysis dynamic artificial neural networks and wavelet techniques used in HMS Particular emphasis is put on wireless sensors and piezo impedance transducers used for evaluation of seismically induced structural damage The discussion is followed by presentation of case studies of application of health monitoring for buildings and other civil structures including a super tall structure The book ends with a

presentation of shaking table tests on physical models for the purpose of monitoring their behaviour under earthquake excitation Audience The book is primarily intended for engineers and scientists working in the field of application of the HMS technique in earthquake engineering Considering that real time health monitoring of structures represents a sophisticated approach applying the latest techniques of monitoring of structures many experts from other industries will also find this book useful IECON '94: Special sessions, signal processing and control ,1994 **Classic Works in RF Engineering** John L. B. Walker,2006 The growing interest in commercial RF applications and high frequency engineering has triggered a scramble for fundamental design and analysis information This expertly compiled resource gives microwave engineers instant one stop access to a vast range of essential source material in a single convenient volume **Nondestructive Monitoring of Materials Properties: Volume 142** John Holbrook,Jean Bussière,1989-11-20 The MRS Symposium Proceeding series is an internationally recognised reference suitable for researchers and practitioners *Conference Proceedings* V. S. Goel,1985 Proceedings IECON. ,1991

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