

New Members

STRAIN GAGE AND TRANSDUCER TECHNIQUES

This soft cover volume is a collection of popular articles that were featured in SEM's periodical, EXPERIMENTAL TECHNIQUES, and in its quarterly journal, EXPERIMENTAL MECHANICS.

CONTENTS:

Strain Measurement Within a Single-lap Joint Using Embedded Strain Gages • Bendable Strain Gages? • Gage-factor Considerations for Platinum-tungsten Alloy at Elevated Temperatures • Protection of Strain Gages on Rebar • Soldering-iron "Tips" for the Difficult Strain-gage Installation • Linearity and Sensitivity Error in the Use of Single Strain Gages with Voltage-fed and Current-fed Circuits • Stress Gages • Some Comments on the Evaluation of Transducer Performance • Reusable Angle Transducer • Vertical-displacement Gage Fixture for J_{IC} Testing • A Microcomputer-controlled Scanning System for Transducers • High-elongation Strain Measurement • New Developments in Foil Strain-gage Transducers • A Strain-gage Transducer for Measuring Strains in Composite Materials • Measuring Strain Gages Directly Without Signal Conditioning • Application of the Knee Gage • Calibration of High-temperature Strain Gages with the Aid of a Clamping Device • Developments in the Design and Use of Liquid-metal Strain Gages • Resistance-foil Strain-gage Technology as Applied to Composite Materials • Reversible Strain Gage

Member Price: \$15.00

Nonmembers: \$19.00

Send prepaid order to

SEM, Publications, 7 School Street,
Bethel, CT 06801

The following individuals joined SEM during the period October to December 1986.

California

*Brinson, L.C.—Pasadena
Griffith, Shelley A.—San Ramon
Jones, Craig D.—Long Beach
Reardon, Lawrence F.—Lancaster

Colorado

Althoff, Margaret—Denver

Connecticut

*Hasan, Muhammad S.—Storrs

Florida

Barton, Bruce E.—Palm Bay
Hayes, John R.—Tyndall AFB

Georgia

King, Wilton W.—Chamblee

Illinois

Kim, Kyung-Suk—Urbana
*Kocher, Christophe G.—Carbondale
*Petrossians, Andranik—Carbondale

Kansas

*Hiatt, Gary—Manhattan

Kentucky

Brown, David C.—Louisville

Massachusetts

Hall, John R.—Wellesley
Marin, Lawrence B.—Lexington
Sharp, Arnold G.—Woods Hole
Thrall, David E.—Marion

Maryland

*Graham, Stephen M.—Greenbelt

Michigan

*Fix, Kristina G.—Houghton
Hill, Frederick B.—Hazel Park
Kniveton, Timothy W.—Royal Oak
*Moshrefi, Nasser—Houghton
*Stahler, James M.—Atlantic Mine

Minnesota

Rodriguez, Richard—Saint Paul

Montana

Cook, Frank—Butte

New Jersey

Chang, Yih-Yi—Florham Park
*Gupta, Abhay R.—Lincoln Park

*Student Member

New Mexico

Varley, Daniel T.—Los Alamos
Vickery, Curtis M.—Albuquerque

Nevada

Kimberlin, William R.—Boulder City

New York

Abhyankar, Nandakisho—Syracuse
Chia, Kaiyin—Niagara Falls
*Connors, John F.—Potsdam
*Matyas, Daniel J.—Tonawanda
*Neighmond, Erin K.—Potsdam
Trivedi, Arvind—New York

Ohio

Riddle, Thomas P.—Milford

Oklahoma

Good, James K.—Stillwater
Lowery, Richard L.—Stillwater

Pennsylvania

Jones, Gerald L.—McMurray
Oster, David M.—Pittsburgh

Rhode Island

Ramesh, Kalia T.—Providence

Texas

Bray, Don E.—College Station
Yee, Victor—Bedford

Virginia

Brooks, James E.—Annandale
Wicks, Alfred L.—Blacksburg
Yeakle, Jay A.—Marion

OTHER COUNTRIES

Canada

*Meyers, Greg—Edmonton
*Montrose, Cameron A.—Windsor

England

Crooks, Alistair M.—Norfolk

Finland

Nurkkala, Pekka—Vantaa

Korea

Park, Y.S.—Seoul

People's Republic of China

Gu, Weihao—Peking
He, Duomin—Jiangsu

Taiwan, Republic of China

Lin, Chao-Hung—Tao-Yuan

West Germany

Kalthoff, Jeorg F.—Krozingen