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References Liquid-metal strain gages can be fabricated in either single- or delta-rossette configurations. Their main advantages are their low stiffness (essential for 1. Beatty, M.F. and Chewing, S. W., "Numerical Analysis of the Reinforcement Effect of a Strain Gage Applied to a Soft use on composites with soft, elastomeric matrices) Material," Int. J. Eng. Sci., 17, 907-915 (1979). and high elongation (at least 50 percent). Their prin 2. Pugin, V.A., "Electrical Strain Gauges for Measuring Large cipal disadvantages are a short shelf life and a Deformations," Soviet Rubber Industry, 19 (1), 23-26 (1960). nonlinear calibration curve. 3. Janssen, M.L. and Walter, J.D., "Rubber Strain Measurements in Bias, Belted Bias and Radial Ply Tires," J. Coated Fibrous Mat., 1, 102-117 (1971). 4. Patel, H.P., Turner, J.L., and Walter, J.D., "Radial Tire Cord-Rubber Composite," Rubber Chem. and Tech., 49, Acknowledgments 1095-1110 (1976). 5. Stone, J.E., Madsen, N.H., Milton, J.L., Swinson, W.F., and Turner, J.L., "Developments in the Design and Use of Liquid-Metal Strain Gages," EXPERIMENTAL MECHANICS, 23, The author acknowledges helpful suggestions by 129-139 (1983). Dr. Joseph D. Walter of Firestone Central Research 6. Whitney, R.J., "The Measurement of Volume Changes in Human Limbs, " J. Physiology, 121, 1-27 (1953).

This text introduces and provides instruction on the design and analysis of experiments for a broad audience. Formed by decades of teaching, consulting, and industrial experience in the Design of Experiments field, this new edition contains updated examples, exercises, and situations covering the science and engineering practice. This text minimizes the amount of mathematical detail, while still doing full justice to the mathematical rigor of the presentation and the precision of statements, making the text accessible for those who have little experience with design of experiments and who need some practical advice on using such designs to solve day-to-day problems. Additionally, an intuitive understanding of the principles is always emphasized, with helpful hints throughout.

Over the past twenty years, the knowledge and understanding of wastewater treatment has advanced extensively and moved away from empirically based approaches to a fundamentally-based first principles approach embracing chemistry, microbiology, and physical and bioprocess engineering, often involving experimental laboratory work and techniques. Many of these experimental methods and techniques have matured to the degree that they have been accepted as reliable tools in wastewater treatment research and practice. For sector professionals, especially a new generation of young scientists and engineers entering the wastewater treatment profession, the quantity, complexity and diversity of these new developments can be overwhelming, particularly in developing countries where access to advanced level laboratory courses in wastewater treatment is not readily available. In addition, information on innovative experimental methods is scattered across scientific literature and only partially available in the form of textbooks or guidelines. This book seeks to address these deficiencies. It assembles and integrates the innovative experimental methods developed by research groups and practitioners around the world. Experimental Methods in Wastewater Treatment forms part of the internet-based curriculum in wastewater treatment at UNESCO-IHE and, as such, may also be used together with video records of experimental methods performed and narrated by the authors including guidelines on what to do and what not to do. The book is written for undergraduate and postgraduate students, researchers, laboratory staff, plant operators, consultants, and other sector professionals.