

Lens Mechanism Technology

D. F. Horne

266 pp. Crane, Russak, New York, 1976.
\$72.50

There exist many texts on the design of optical systems and the fabrication of optical components, but the literature has been sadly lacking in treatments of the mechanical design of lens systems. While the techniques of lens design have been studied by many investigators, there has persisted a general lack of understanding of the problems of mounting these components. The recent text by D. F. Horne, *Lens Mechanism Technology*, represents an attempt to fill this void.

This book is devoted to the mechanical design of lens mounts, and more particularly to camera systems. One finds sections on stop and iris designs, shutter design and zoom systems. Other chapters describe turning techniques, alloys and their finishing, injection molding and the manufacture of springs. A number of these chapters treat the machinery in great detail; but in many cases Horne does not teach the principles. One other failing of this work is the lack of tolerance analysis. In mechanical design, the tolerance of decentration, tilt and other factors becomes most important. Its inclusion would add to this work's value.

In many ways, this volume reads like a catalog for the machinery of various manufacturers (complete with detailed engineering drawings). It appears that a number of sections—for example, spring manufacturing and silk-screen printing—do not pertain to the main topic. Further, a number of figures may be regarded as unnecessary. Such illustrations are referenced only in passing and not used to illustrate the text.

DUNCAN T. MOORE
The Institute of Optics
University of Rochester
Rochester, N.Y.

Nuclear and Particle Physics A: Background and Symmetries

H. Frauenfelder, E. M. Henley

573 pp. W. A. Benjamin, Reading, Mass., 1975. \$21.50 clothbound, \$13.50 paperbound

This is the first volume of a graduate text, with volume B (subtitled "Electromagnetic and Weak Interactions") in preparation.

The authors, Hans Frauenfelder and Ernest Henley, have made important contributions to the subject covered in this book, the first primarily experimental and the second theoretical. As one great

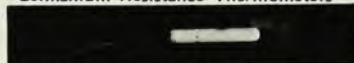
The backbone of All accurate temperature systems begins with a Scientific Instrument sensor. The small investment that produces the Biggest Result

Sensors from S.I. are still the best buy.

All Temperature Ranges from .05 K to 811 K (-460°F to 1000°F)



Germanium Resistance Thermometers



Platinum Resistance Thermometers



Thermocouples



Probes



Special Configurations

Get the facts, then specify . . .

SCIENTIFIC INSTRUMENTS, INC.

632 South F Street Lake Worth, Florida 33460
Telephone 305 / 585-9451



Circle No. 36 on Reader Service Card

Ealing

Use your
free
Ealing Catalog



864 pages

Ealing:

South Natick, Mass. 01760, Tel: (617) 655-7000
9649 Côte de Liesse, Dorval H9P 1A3, Québec
Greycaine Road, Watford, WD2 4PW, England
Bahnhofstr. 8, Postfach 1226, 6128 Höchst, Germany
1030, Boulevard Jeanne d'Arc, 59500 DOUAL, France

Circle No. 37 on Reader Service Card



**Wherever you are,
Ortec is never far away.**

Ortec offers you the broadest line of high-performance electronics, detectors, and fully integrated systems for basic and applied nuclear physics . . . backed by a worldwide sales and service organization trained to help you select the instrumentation you need and use it most effectively. With 76 offices in 49 countries, and customers from Milwaukee to Minsk, Ortec can solve your instrumentation problems . . . wherever you are.

Discover what you've been missing.

ORTEC
AN EG&G COMPANY

Oak Ridge, TN 37830. (615) 482-4411. Telex 055-7450.

Circle 150 on reader service card for sales office list
Ortec 6349G