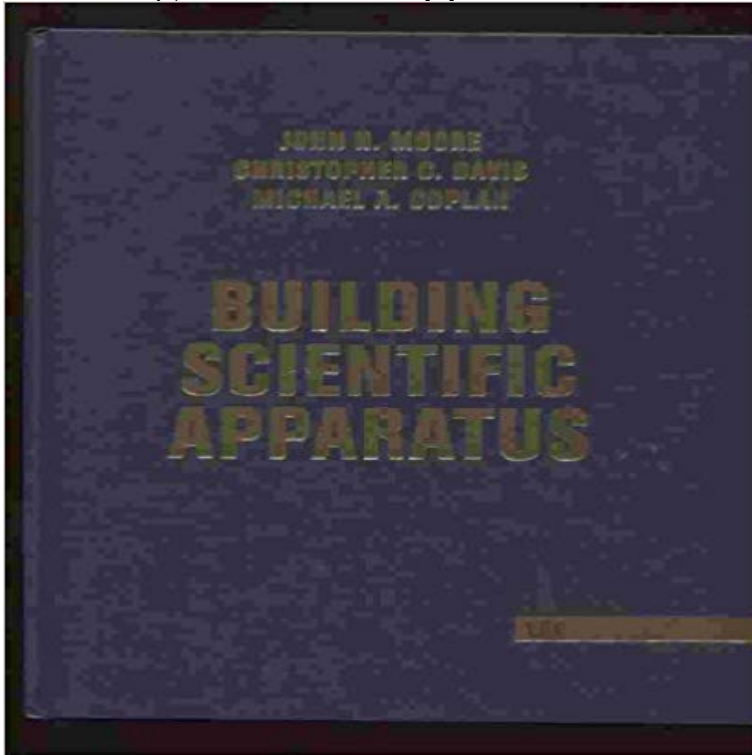


Building Scientific Apparatus



Building Scientific Apparatus is a unique single-volume reference for the scientist or engineer whose work requires the construction of unique apparatus. The basic principles of mechanics, optics and electronics required in the design of laboratory devices are covered in sufficient detail that reference to other texts is seldom necessary. Technical skills such as glassblowing, machining, mechanical drawing, soldering, are described along with many of the tricks of the trade that cannot be found elsewhere. The text describes the design and workings of components such as vacuum pumps, mirrors and lenses, and electronic circuits. The appropriate integration of components into a working apparatus is discussed, as is the questions of whether components are to be fabricated or purchased. In the latter case, text helps with the writing of specifications. Building Scientific Apparatus features clear, concise text. There are comprehensive tables of materials properties, and the characteristics of optical, electronic, and thermal devices. The text is complemented by hundreds of hand-drawn illustrations. Previous editions of Building Scientific Apparatus have become the standard text for practicing scientists and engineers who build their own laboratory apparatus. The book is the ideal introduction for graduate students beginning research in the physical, engineering, or biological sciences even the social sciences when apparatus is required. The book has a definite appeal and usefulness for amateur scientists as well. At least a quarter of the Third Edition of Building Scientific Apparatus is new material. The remaining text has been reviewed and updated, as have many of the illustrations.

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