



Design and Planning of Research and Clinical Laboratory Facilities

By Leonard Mayer

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DESIGN and PLANNING of Research and Clinical LABORATORY FACILITIES

In this primer/professional reference, Leonard Mayer demystifies one of the most complex architectural specialties. An architect with more than thirty-three years' experience as a master planner and programmer of laboratories and clinical facilities, Mr. Mayer offers a comprehensive overview of the fundamental issues related to laboratory planning and design. He also provides designers with a clear and rational framework through which to approach this highly challenging and rewarding design specialty. A superb learning tool for students and professionals just getting started in lab design and a valuable one-volume reference for the experienced professional, *Design and Planning of Research and Clinical Laboratory Facilities* features:

- * Step-by-step guidance through the complex maze of codes, specifications, standards, and official guidelines, relating to the planning, design, and construction processes
- * New and updated design criteria based on the most recent laws and regulations
- * Master plans, facility programs, functional programs and requirements programs for a wide variety of scientific and medical disciplines and support facilities
- * Comprehensive lists of relevant codes, regulations, standards, guidelines, and important architectural, structural, mechanical, electrical, and plumbing criteria

Research and clinical laboratory facilities are, perhaps, the most complex structures to plan and design. Intimidated by a vast and seemingly impenetrable body of codes, regulations, and design criteria pertaining to lab design and construction, many architects, unfortunately, choose to avoid what can be one of the most profitable and professionally rewarding areas of specialization.

Written by an architect with more than thirty-three years of experience as a master planner and programmer of laboratories and clinical facilities, this book demystifies the process of laboratory planning and design. It provides a

comprehensive overview of the fundamental issues related to laboratory design and offers readers detailed, step-by-step guidance through the complex maze of design specifications and codes, standards, and official guidelines that must be addressed during the programming, planning, design, and construction process.

Focusing mainly on laboratory programming, planning, and design criteria for "wet" laboratory environments, Leonard Mayer provides examples from numerous master plans, facility programs, functional programs and requirements programs applicable to a wide variety of scientific and medical disciplines, and related facilities. Related functions and activities include administrative offices, computer centers, core service and support, building services facilities, and more. He presents new and updated design criteria based on recent laws and regulations and supplies readers with comprehensive lists of relevant codes, regulations, standards, guidelines, and architectural, structural, mechanical, electrical, and plumbing criteria.

Design and Planning of Research and Clinical Laboratory Facilities is an excellent primer for architecture students and newcomers to the field, as well as an indispensable single-volume reference for experienced professionals. It is also an invaluable resource for researchers and investigators, facility planners and managers, plant engineers, and all others involved with the design, construction, maintenance, and administration of laboratory facilities.

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Editorial Review

From the Publisher

Presents biomedical, environmental, physical and basic sciences research laboratory programming, planning and design criteria based upon the author's many years of experience in master planning and programming. Considers the many factors that have significant impact on the design of laboratory facilities including architectural, structural, mechanical, electrical and plumbing standards. Contains an extensive list of codes, regulations, guidelines and other reference publications. Features new and updated design criteria based on recent laws and regulations.

From the Inside Flap

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From the Back Cover

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Users Review

From reader reviews:

Therese Watson:

Here thing why this particular *Design and Planning of Research and Clinical Laboratory Facilities* are different and reputable to be yours. First of all reading a book is good but it depends in the content than it which is the content is as delightful as food or not. *Design and Planning of Research and Clinical Laboratory Facilities* giving you information deeper and in different ways, you can find any reserve out there but there is no book that similar with *Design and Planning of Research and Clinical Laboratory Facilities*. It gives you thrill examining journey, its open up your personal eyes about the thing that happened in the world which is possibly can be happened around you. It is possible to bring everywhere like in area, café, or even in your method home by train. Should you be having difficulties in bringing the branded book maybe the form of *Design and Planning of Research and Clinical Laboratory Facilities* in e-book can be your alternative.

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Samantha Smith:

In this period of time globalization it is important to someone to obtain information. The information will make anyone to understand the condition of the world. The condition of the world makes the information simpler to share. You can find a lot of personal references to get information example: internet, newspaper, book, and soon. You can view that now, a lot of publisher this print many kinds of book. The particular book that recommended for you is Design and Planning of Research and Clinical Laboratory Facilities this reserve consist a lot of the information of the condition of this world now. This specific book was represented how does the world has grown up. The terminology styles that writer value to explain it is easy to understand. Typically the writer made some research when he makes this book. That's why this book suited all of you.

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