

# *Preface*

About ten years ago while writing procurement specifications for a number of shielded radio frequency anechoic test chambers I became aware of the lack of published information on architectural electromagnetic shielding systems. This book was written to fill that gap and I believe it is the first single-volume text covering all aspects of that subject.

The purpose of the handbook is to provide the practicing architect/engineer with a single source of information on electromagnetic shielding. Included are chapters on the need for shielding, basic shielding theory, and complete descriptions of the three major types of commercial shielding. Extensive supporting information on penetrations, such as doors, vents, piping, and electromagnetic filters is provided for each type of shielding. Performance specifications and methods of testing necessary to prove performance are detailed. Finally, a set of design checklists is provided for the three most common forms of shielding so that the architect/engineer can be sure he has covered all aspects of the shielded enclosure installation.

In Appendix A, suggested specifications are provided to aid the architect/engineer with formulating a complete shielded facility specification. These are arranged in the same order as the chapters that describe the various forms of shielding, supporting hardware, and services.

This material was organized by the author who is solely responsible for all technical information included in the handbook. The presentation is made as factual as possible and treats all shielding products in a fair and unbiased manner. For specific products, services, and commercial shielding information, the reader is referred to Appendix B. This appendix describes an industry annual publication which lists most of the currently active shielding suppliers and installers in the United States as well as some overseas.

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