



# Audio Systems Design and Installation

By Philip Giddings

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## Audio Systems Design and Installation By Philip Giddings

Audio and video systems of all shapes and sizes are fraught with less than optimum performance. Audible hum and RFI (radio frequency interference), poor reliability, unsafe operation, overheating, and damage during touring are only a few of these problems. Those engineers and technicians that can make things right are a prized commodity. *Audio Systems Design and Installation* is a book which reveals the trade secrets of optimized performance of audio (and video) systems. It contains a wealth of ideas and data which are invaluable to anyone working in the industry.

Ted Uzzle, editor of Sound and Video Contractor, states that *Audio Systems Design and Installation* is an "Instant classic", a "must have", and "perennial". For the designer and engineer, it is a comprehensive source of reference data on components and techniques used to assemble systems, for example: transformers, active inputs and outputs; pad, filters; grounding and grounding conductors, power conditioning; common mode chokes, ferrite beads; and many, many more items. Detailed illustrations and photos uncover many systems issues critical to optimum performance. For the technician and installer, it contains detailed drawings about:

- \* optimized signal interconnection schemes
- \* shielded grounding schemes
- \* jackfield wiring methods
- \* rack systems
- \* rack and equipment grounding

The ins-and-outs of wiring technique and hardware types are thoroughly explained. The bottom line is that use of the information contained in *Audio Systems Design and Installation* will result in better systems that are more reliable-saving you time and money. Read the book and become a bigger asset to your organization.

Philip Giddings has published in a variety of magazines as well as the Journal of the Audio Engineering Society. He is a regular lecturer to local chapters of the AES and SMPTE, as well as at NSCA and Syn Aud Con. He is a graduate of McGill University's Electrical Engineering program and a registered Professional Engineer.

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### Editorial Review

#### Review

"Another fine book is Phil Giddings' Audio System Design and Installation. This book includes 574 pages of practical, hands-on information and has become a standard reference in the industry." - Sound & Video Contractor, April 2000

#### From the Publisher

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#### About the Author

Philip Giddings is the principal of Engineering Harmonics of Toronto, an international consulting company dedicated to the pursuit of excellence in the design and implementation of audio, video, and control systems and facilities. Since 1979, Giddings has been providing independent engineering services on a variety of projects including broadcast and recording studios, concert halls and theatres, sports facilities, and AV presentation environments. He also consults on the design of technical power and ground systems for large facilities. Auralization and dual channel FFT testing are also provided. Philip has published in a variety of magazines as well as the Journal of the Audio Engineering Society. He is a regular lecturer to local chapters of the AES and SMPTE, as well as at NSCA and Syn Aud Con. He is a graduate of McGill University's Electrical Engineering program and a registered Professional Engineer.

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