

# Sound System Engineering Don Davis

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long considered the only book an audio engineer needs on their shelf sound system engineering provides an accurate complete and concise tool for all those involved in sound system engineering fully updated on the design implementation and testing of sound reinforcement systems this great reference is a necessary addition to any audio engineering library packed with revised material numerous illustrations and useful appendices this is a concentrated capsule of knowledge and industry standard that runs the complete range of sound system design from the simplest all analog paging systems to the largest multipurpose digital systems

a comprehensive text useful in the day to day work of designing sound systems it is a practical manual that carefully examines a step by step method of accurately predicting such variables as acoustic gain clarity of sound and required electrical input power while plans are still on the drawing board emphasizing the time energy frequency analyzer the authors discuss problems that might occur in a sound system as it evolves through design installation equalization operation and

maintenance a necessary addition to the library of anyone involved in audio engineering

sound system engineering third edition is a complete revision and expansion of the former work written by two leading authorities in the field of audio engineering this highly respected guide covers the fundamentals necessary for the understanding of today s systems as well as for those systems yet to come the space formerly occupied by outdated photographs of manufacturers product and of older system installations has now been filled with new measurements and discussions of the measurement process the mathematics for audio chapter has been expanded to include the mathematics of phasors the interfacing electrical and acoustic systems chapter has a completely new section covering the analysis of alternating current circuits additionally system gain structure is now treated by both the available input power method and the voltage only method complete with illustrations of each all chapters dealing with loudspeaker directivity and coverage the acoustic environment room acoustics speech intelligibility and acoustic gain appear in up to date versions in addition there is new material on signal delay and synchronization and equalization there are completely new chapters on microphones loudspeakers and loudspeaker arrays including line arrays with steering and beam width control and signal processing both analog and digital the book runs the gamut of sound system design from the simplest all analog paging system to the largest multipurpose digital systems in writing this third edition the authors kept in mind the needs of sound system installers sound system service technicians and sound system designers all three groups will find the material to be useful for everyday work as well as beneficial in the furtherance of their overall audio education

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