

Build Your Own Low-Power Transmitters: Projects for the Electronics Experimenter

By Rudolf F. Graf, William Sheets

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Build Your Own Low-Power Transmitters: Projects for the Electronics Experimenter By Rudolf F. Graf, William Sheets

Rudolf Graf and William Sheets have written a book containing twenty low-power (LP) transmitter projects, perfect for the electronics hobbyist and radio experimenter. Now that the FCC has changed its regulations about "pirate" transmissions, more and more people are setting up radio and video stations for broadcast from their homes. Build Your Own Low-Power Transmitters addresses applications for hobbyist broadcasting of AM, SSB, TV, FM Stereo and NBFM VHF-UHF signals with equipment the reader can build himself for thousands of dollars less than similar equipment sold on the retail market. The authors also fully explore the legal limits and ramifications of using the equipment as well as how to get the best performance for optimum range. The key advantage is referencing a low-cost source for all needed parts, including the printed circuit board, as well as the kit.

Projects in the book include: LP FM stereo transmitter; digitally synthesized PLL FM stereo transmitter; LP AM transmitter for 150-1710 KHz; radio control transmitter/receiver; carrier current transmitter and AM and FM receivers; LP VHF one-way and two-way audio links; 1-watt 40-meter CW transmitter for ham radio use; SSB LP transmitter for 10-meter ham radio use; 2-meter VHF FM ham radio transmitter; FM video link for 900 MHz NTSC/PAL operation; 2-watt TV transmitters for 440, 900 and 1300 MHz amateur TV NTSC/PAL transmissions; linear amplifier for 440MHz, 10-15watt NTSC/PAL operation; Downconverters for 440, 900 and 1300 MHz with VHF channel 3 or 4 output; TV video receiving systems and AM-FM IF systems; LP video link for UHF channels 14-18; 1-watt CW beacon transmitter for Part 15 LF radio experimentation; CW identifier for transmitters; test equipment projects for LP transmitters; as well as an RF power meter and modulation monitor.

Complete source information will be included to help each reader find the kits and parts they need to build these fascinating projects.

- Unique among comparable project books, this one offers a low-cost source for all parts, including the printed circuit board. This allows immediate completion without needing to search for difficult to find parts

- Features twenty low-power transmitter projects

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