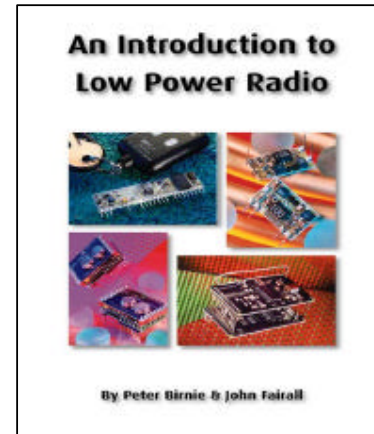


## *An Introduction to Radio Book*

This book provides a comprehensive introduction to designing with radio. Written to enable the user to select and utilise the correct RF technology for low power radio data systems.



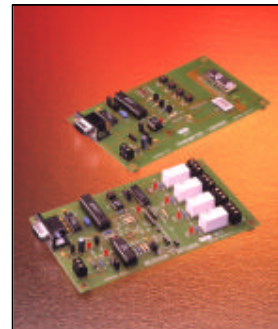
Aimed at the practical engineer, this book concentrates on discussing theoretical matters in an easy to understand manner allowing system design decisions to be made which will result in functional and reliable designs with low power radio.

Subjects covered include; the basic principles of radio wave propagation, modulation and reception, investigation into the methods to encode and decode data. Recommendations are given as to the best techniques for different applications.

Practical radio data systems are covered including design of 'aerial' and 'PCB layout', selection of various low power radio data modules, and review of encoding techniques.

## **Radio Evaluation Boards**

- Hardware Evaluation Platform
- AM / FM Comparison & Selection
- Range Testing
- Encoding / Decoding Testing
- Remote Switching
- Antenna Evaluation
- Data Comms



The RFEVAL2 enables the engineer to integrate a remote control system into a target application, select the optimum radio modules, antenna type and get a radio application working with the minimum time.

Supplied with AM pocket keyfob, FM Handheld transmitter encoder and Manchester decoding I/C's this kit provides a hardware development platform capable of accepting a variety of radio modules and antenna. Three projects are studied in detail;

1. **AM Pocket Keyfob Radio Switching using Manchester Keeloq encoding & HIRK Decoder.**
2. **AM Pocket Keyfob Radio Switching using Manchester Keeloq encoding & RF600D Decoder.**
3. **FM Pocket Transmitter Radio Switching using Manchester Keeloq encoding & RF600D Decoder.**

The boards are supplied as either bare boards (with a pre-tuned PCB antenna ready for use) or completely assembled (requiring radio modules only). Full schematics and parts list supplied.

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