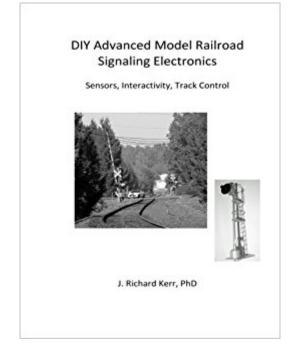


The book was found

DIY Advanced Model Railroad Signaling Electronics: Sensors, Interactivity, Track Control





Synopsis

Four years in preparation, this book shows the model railroader how to design an automatic signaling and block control system that avoids the usual compromises. It properly responds to single or multiple trains of any length, including stops and reversals, while

 \tilde{A} ¢â $\neg \tilde{A}$ "remembering \tilde{A} ¢â $\neg \hat{A}$ • proper status during system power-down. All types of signals are covered, from simple red/green to 3-color units with $\tilde{A}\phi \hat{a} \neg \hat{A}$ approach mode $\tilde{A}\phi \hat{a} \neg \hat{A}$; and with or without self-latching or built-in aspect (red/amber/green) hierarchies. Road-crossing signal operation is properly asymmetrical in response to train direction, and adapts to stopping/reversing. The text encompasses AC and DC powered signals and trains of all gauges, including toy $(\tilde{A}\phi\hat{a} \neg A^{*}high-rail\tilde{A}\phi\hat{a} \neg A^{\bullet})$ layouts, and includes both $\tilde{A}\phi\hat{a} \neg A^{*}common cathode\tilde{A}\phi\hat{a} \neg A^{\bullet}$ and â⠬œcommon anodeâ⠬• configurations for DC powered setups. To ensure realism, any substantive dependence on timers is avoided. A wide variety of homebrew and commercial train-sensors is covered, with instructions on DIY alternatives ranging from very simple to ultimate performance. Based on the use of the excellent scale signals that are on the market, the text applies to any combination of DIY and commercial sensor and control hardware. Multiple-block signaling with turnouts, Acâ ¬A"tumble-downAcâ ¬A•, and cross-tracks are discussed in detail. The use of the same sensors for automatic track (train or $\tilde{A}\phi\hat{a} \neg A^{*}cab\tilde{A}\phi\hat{a} \neg A^{\bullet}$) control is described for turnaround loops and wyes, for the prevention of following- and opposing-train collisions, and for non-derailing at improperly positioned turnouts. Also covered is the application of these concepts in a Digital Command Control context. DIY Advanced Model Railroad Signaling Electronics assumes a very modest knowledge of electronics, or alternatively, the ability to interpret a schematic diagram and solder simple, highly economical components on a hobbyistââ ¬â,,¢s circuit board. Specific electronic board layouts have been designed for the most important circuits, and commercial sources for the boards $\tilde{A}\phi \hat{a} \neg \hat{a} \phi$ as well as all other components $\tilde{A}\phi \hat{a} \neg \hat{a} \phi$ are provided. The book includes 97 figures and diagrams, and a comprehensive outline of contents.

Book Information

Paperback: 158 pages Publisher: CreateSpace Independent Publishing Platform (October 14, 2015) Language: English ISBN-10: 1517602246 ISBN-13: 978-1517602246 Product Dimensions: 8.5 x 0.4 x 11 inches Shipping Weight: 13.4 ounces (View shipping rates and policies)
Average Customer Review: 4.2 out of 5 stars 8 customer reviews
Best Sellers Rank: #725,252 in Books (See Top 100 in Books) #108 inà Â Books > Crafts,
Hobbies & Home > Crafts & Hobbies > Toys & Models > Model Trains

Customer Reviews

J. Richard (Dick) Kerr holds a Ph.D. in Electrical Engineering from Stanford University, and is a retired infrared, laser, and avionics systems engineer. He has authored over 60 scientific and engineering papers, and has been granted 10 patents. During his career he has been a professor, Graduate School president, engineering manager, and entrepreneur. Starting with an early childhood interest in model railroading, Dick has been fascinated with the idea of providing truly realistic, automatic signal operation that far exceeds the capabilities of commercially available toy train and scale model commercial units. Having (partially) retired, he has spent much of his time fleshing out these ideas in great detail, including testing on his own model train layouts. Many years have passed since the first motivation for these concepts, and he hopes that their final exposition will bring pleasure to- and stimulate the creativity of $\tilde{A}c\hat{a} \neg \hat{a} ce$ others in this challenging and timeless hobby.

A must for any Model Railroading library - all gauges. It's an analog system for block detection and control that the novice may find difficult to understand, but the electronic-savvy hobbyist will enjoy. A VERY meaty tome.

It is taking some thinking and gathering of materials but I believe I can do this stuff soon.

A bit too advanced for me. You really need an excellent understanding of electricity and electronics for this book to be useful.

Just what I needed to get started in setting up signals on my model RR.

A bit too complicated for me.

Was looking for electronic circuits. This is not that kind of book.

Book arrived 12Oct2016. Very detailed with schematics and parts list so am able to work through examples. Thank you. Content is as expected.

my wife bought me this book, its not for the beginner, you will need to have some electronics experience in how to read a multi meter and have some experience in constructing kits or similar.lots of relevant information about circuits and wiring.not for the faint hearted, it is very deep.but very worth while.

Download to continue reading...

DIY Advanced Model Railroad Signaling Electronics: Sensors, Interactivity, Track Control DIY: 365 Days of DIY: A Collection of DIY, DIY Household Hacks, DIY Cleaning and Organizing, DIY Projects, and More DIY Tips to Make Your Life Easier (With Over 45 DIY Christmas Gift Ideas) Track Planning for Realistic Operation: Prototype Railroad Concepts for Your Model Railroad (Model Railroader)(3rd Edition) Easy Model Railroad Scenery Projects (Model Railroad Scenery Series) One Hundred and One Track Plans for Model Railroaders (Model Railroad Handbook, No. 3) DIY For Men: Woodworking, Ham Radio, Blacksmithing, Homemade Weapons and Even DIY Internet Connection: (DIY Projects For Home, Woodworking, How To Build A Shed, Blacksmith, DIY Ideas, Natural Crafts) DIY Household Hacks for Beginners: DIY Hacks For Cleaning And Organizing, Increased Productivity, Declutter your Home (DIY Home Improvements, DIY Household ... And Organizing, Increase Productivity) DCC Projects & Applications: Digital Command Control for Your Model Railroad (Model Railroader) Railroad Signaling RCadvisor's Model Airplane Design Made Easy: The Simple Guide to Designing R/C Model Aircraft or Build Your Own Radio Control Flying Model Plane Track & Field News' Big Gold Book: Metric Conversion Tables for Track & Field, Combined Decathlon/Heptathlon Scoring and Metric Conversion Tables, and ... the Track Fan, Athlete, Coach and Official Designing Model Railroad Track Plans How to Build Realistic Model Railroad Scenery, Third Edition (Model Railroader Books) Basic Model Railroad Benchwork (Model Railroader Essentials Series) Building a Model Railroad Step by Step (Model Railroader's How-To Guides) Beginner's Guide to N Scale Model Railroading: Everything You Need to Know to Get Started (Model Railroad Handbook) Getting Started with Sensors: Measure the World with Electronics, Arduino, and Raspberry Pi Make: More Electronics: Journey Deep Into the World of Logic Chips, Amplifiers, Sensors, and Randomicity Direct-Write Technologies for Rapid Prototyping Applications: Sensors, Electronics, and Integrated Power Sources Soapmaking, Body Butter & Essential Oils DIY Collection x 9: Soapmaking, Body Butter & Essential Oils Boxset Bundle: Making Soap At Home, DIY Soap Recipes, ... & MUCH MUCH MORE! (DIY Beauty Boxsets)

Contact Us

DMCA

Privacy

FAQ & Help