
Circuit Cellar

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CANTU MOODY

THE BEST OF CIARCIA'S CIRCUIT CELLAR

Chicago Review Press

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The Reader's Guide to Microcomputer Books lakeview research llc

A hands-on introduction to microcontroller project design with dozens of example circuits and programs. Presents practical designs for use in data loggers, controllers, and other small-computer applications. Example circuits and programs in the book are based on the popular 8052-BASIC microcontroller, whose on-chip BASIC programming language makes it easy to write, run, and test your programs. With over 100 commands, instructions, and operators, the BASIC-52 interpreter can do much more than other single-chip BASICs. Its abilities include floating-point math, string handling, and special commands for

storing programs in EPROM, EEPROM, or battery-backed RAM.

Circuit Cellar Renesas M16C Applications Chicago Review Press

The Electronics Workbench was created to assist the newcomer to the field of practical electronics through the creation of a personal electronics workbench. It is a place specially designed so that readers can go there to work on an electronic project, such as testing components, troubleshooting a device, or building a new project. The book includes invaluable information, such as whether to buy or build test equipment, how to solder, how to make circuit boards, how to begin to troubleshoot, how to test components and systems, and how to build your own test equipment, complete with appendix & resources, etc. This is THE book for anyone entering the field or hobby of electronics.

The 8051 Microcontroller Hall Reference Books

If you have the right tools, designing a microprocessor shouldn't be complicated. The Verilog hardware description language (HDL) is one such tool. It can enable you to depict, simulate, and synthesise an electronic design, and thus increase your productivity by reducing the overall workload associated with a

given project. Monte Dalrymple's *Microprocessor Design Using Verilog HDL* is a practical guide to processor design in the real world. It presents the Verilog HDL in an easily digestible fashion and serves as a thorough introduction about reducing a computer architecture and instruction set to practice. You're led through the microprocessor design process from start to finish, and essential topics ranging from writing in Verilog to debugging and testing are laid bare. The book details the following, and more: Verilog HDL Review: data types, bit widths/labelling, operations, statements, and design hierarchy; Verilog Coding Style: files vs. modules, indentation, and design organisation; Design Work: instruction set architecture, external bus interface, and machine cycle; Microarchitecture: design spreadsheet and essential worksheets (eg: Operation, Instruction Code, and Next State); Writing in Verilog: choosing encoding, assigning states in a state machine, and files (eg: defines.v, hierarchy.v, machine.v); Debugging, Verification, and Testing: debugging requirements, verification requirements, testing requirements, and the test bench; Post Simulation: enhancements and reduction to practice.

Popular Computing Elektor Electronics

Well known in this discipline to be the most concise yet adequate treatment of the subject matter, it provides just enough detail in a direct exposition of the 8051 microcontroller's internal hardware components. This book provides an introduction to microcontrollers, a hardware summary, and an instruction set summary. It covers timer operation, serial port operation, interrupt operation, assembly language programming, 8051 C programming, program structure and design, and tools and techniques for program development. For microprocessor programmers, electronic engineering specialist, computer scientists, or electrical engineers.

ADuC841 Microcontroller Design Manual Circuit Cellar

Whether electronics is a hobby or an avocation, this resource covers everything you need to know to create a personal electronic workbench. The author includes essential yet difficult to find information such as whether to buy or build test equipment, how to solder, how to make circuit boards, how to troubleshoot, how to test components and systems, and how to build your own test equipment. Building on a budget Sources for equipment

Ciarcia's Circuit Cellar Lakeview Research LLC

Unless you live in a haunted house, the eyes on your paintings probably don't follow you around. However, with a couple of motion sensors, two motors, a few transistors, resistors, diodes, and wires you can convert a Van Gogh print into a macabre masterpiece with a mind of its own. Haywired proves that science can inspire odd contraptions. Create a Mona Lisa that smiles even wider when you approach it. Learn how to build and record a talking alarm, or craft your own talking greeting card. Construct a no-battery electric car toy that uses a super capacitor, or a flashlight that can be charged in minutes, then shine for 24 hours. Written for budding electronics hobbyists, author Mike Rigsby offers helpful hints on soldering, wire wrapping, and multimeter use. Each project is described in step-by-step detail with photographs and circuit diagrams. Includes Web sites listing suppliers and part numbers.

Amazing Rubber Band Cars McGraw-Hill Osborne Media

From the electronics workshop of Steve Ciarcia comes another group of build-it-yourself electronics projects. These easy-to-build, cost-effective fun projects originally appeared in the author's BYTE magazine column and are of great appeal to computer and electronics hobbyists.

Build Your Own Electronics Workshop lakeview research llc

Contains schematics and specifications for 300 state-of-the-art measuring circuits. This valuable reference features the very

latest circuit technology used to monitor electronics applications. Organized alphabetically by application for readers with specific interests, this handy benchtop companion contains by far the largest number of up-to-date measuring circuits available in a single, low-cost volume.

CIARCIA'S CIRCUIT CELLAR: (ARTICLES FROM JULY 1983-DEC. 1984)

McGraw Hill Professional

Discusses Uses for the Microcomputer, Including Projects & Methods for Interfacing the Personal Computer with Its Environment

DR. DOBB'S JOURNAL

Ciarcia's Circuit Cellar

Robert Lacoste's The Darker Side column has quickly become a must read among Circuit Cellar devotees. His column provides readers with succinct theoretical concepts and practical applications on topics as far reaching as digital modulation to antenna basics. Difficult concepts are demystified as Robert shines a light on complex topics within electronic design. This book collects sixteen Darker Side articles that have been enriched with new, exclusive content from the author. An intro into The Darker Side will give examples of material that can enhance and optimize the way you design. A Scilab tutorial along with Scilab software and all project material will be included with this package so that all projects can be tackled hands-on. It's time to stop being afraid of the dark, let this book easily guide you through the time-draining, problematic elements of your application design. Tips and tricks to enhance design performance Practical advice on topics from digital signal design to electromagnetic interference

Audels Engineers and Mechanics Guide Circuit Cellar

This is a readable, hands-on self-tutorial through basic digital electronic design methods. The format and content allows readers faced with a design problem to understand its unique requirements and then research and evaluate the components and technologies required to solve it. * Begins with basic design elements and expands into full systems * Covers digital, analog, and full-system designs * Features real world implementation of complete digital systems

Newnes

This book is for programmers, hardware designers, and anyone who uses the PC's parallel port to communicate with printers and other peripheral devices. The tips, tools, and examples in this complete reference will save you time, spark new ideas for your own projects, and help you use all of a port's abilities - including the new high-speed, bidirectional modes.

Build Your Own Electronics Workshop McGraw-Hill Companies

When PCs and peripherals began showing up with USB ports in the late 1990s, many predicted that legacy serial (COM) ports would soon be obsolete. The predictions were wrong. While most standard peripherals now use USB, serial ports are the interface of choice for devices that require simple programming, long cables, operation in harsh environments, or basic networking capabilities. Serial ports are more versatile than ever due to developments such as USB virtual COM ports, the .NET SerialPort class, enhanced microcontroller USARTs, and new wireless interfaces. Serial Port Complete Second Edition is a completely revised and updated guide to programming and interfacing to COM ports, USB virtual COM ports, and serial ports in embedded systems. Author Jan Axelson shows how to: § Access COM ports using the SerialPort class in Microsoft's .NET Framework. § Program embedded systems for serial-port communications. § Design and program USB devices accessed as virtual COM ports.

§ Upgrade RS-232 designs to USB with no changes to host software or device firmware. § Design circuits for electrically harsh environments. § Create serial networks of embedded systems and PCs. § Use serial ports in wireless links. Example code is provided for PCs and embedded systems in both Basic and C/C#. The author maintains a website with articles, program code, and other links of interest to developers of serial-port applications (janaxelson.com).

Complete Digital Design McGraw Hill Professional
Combining fun and interactive activities, this guide will have kids captivated for hours constructing fantastic racing cars with the basics of only rubber bands, cardboard, and glue. These simple instructions with templates allow budding engineers to gain hands-on experience as they learn not only how to build a basic racer, but how to make modifications such as aluminum foil axle

bearings, steering mechanisms, hinges, cam shafts, and wheels made out of old CDs. This helpful resource has step-by-step instructions for making a basic rubber-band model, a railroad push-car, and a high-speed racer. Other unique projects include Oscar the Laughing Clown, which has a jaw mechanism that opens and closes when it moves, and Spot the Dog, which has a moving tail. Children can even learn how to build a rubber band car big enough for a human. Exploring wheels, bearings, and friction, kids will learn not only how to make speedy racers but also the science that makes the process work.

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