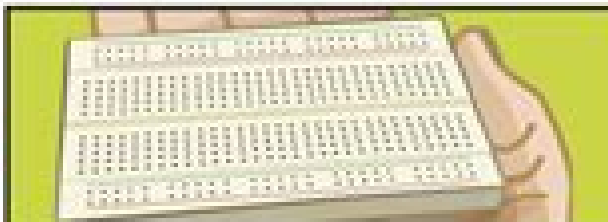


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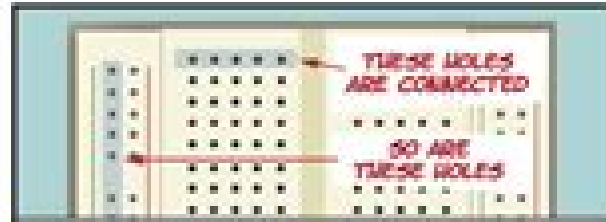
# BREADBOARD?

(and how do I use it?)

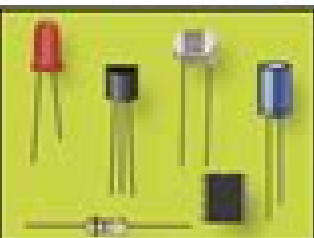
BY JODY COLEMAN & **Make:**



A **SOLDERLESS BREADBOARD** IS A PLASTIC BOX FULL OF METAL STRIPS, WITH A GRID OF HOLES ON TOP. IT IS USED TO BUILD AND TEST CIRCUITS QUICKLY.



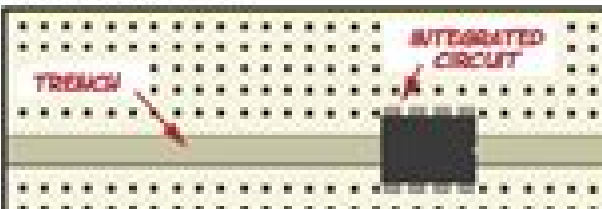
THE HOLES IN THE BREADBOARD ARE CONNECTED IN PATTERNS THAT ALLOW YOU TO ATTACH COMPONENTS TO EACH OTHER AND TO POWER AND GROUND.



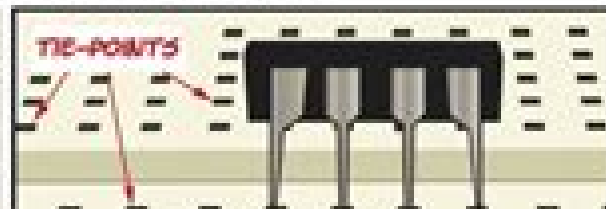
COMPONENTS ARE PARTS USED TO BUILD OUR CIRCUIT.



WE WILL ATTACH A BATTERY OR OTHER POWER SOURCE TO POWER AND GROUND TO RUN OUR CIRCUIT.



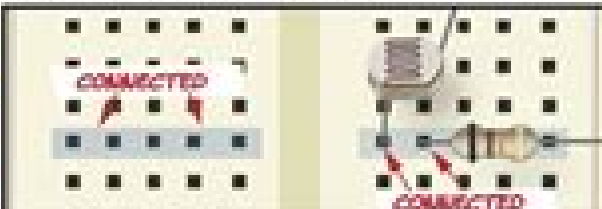
GENERALLY A BREADBOARD HAS A SLOT DOWN THE MIDDLE CALLED A TRENCH. THE WIDTH IS DESIGNED SO MANY INTEGRATED CIRCUITS (ICs) FIT RIGHT ACROSS IT.



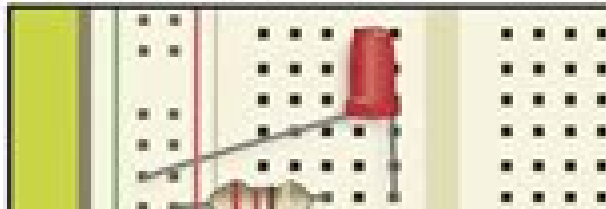
THE HOLES, CALLED **TIE-POINTS**, ARE THE SAME DISTANCE APART AS THE PINS ON MANY ICs AND OTHER COMPONENTS.



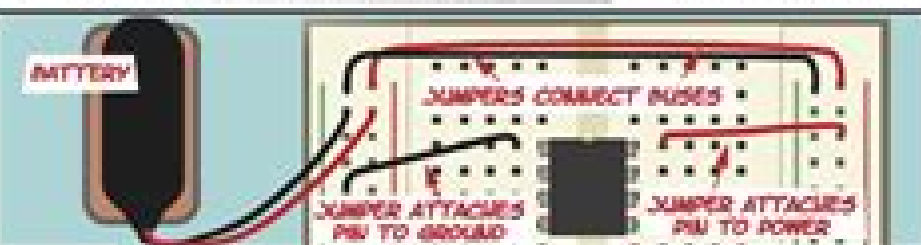
THERE ARE OFTEN 2 LINES OF HOLES ON EACH OF THE LONG SIDES OF THE BOARD THAT GET ATTACHED TO POWER AND GROUND. THESE LINES ARE CALLED **DISTRIBUTION BUSES**.



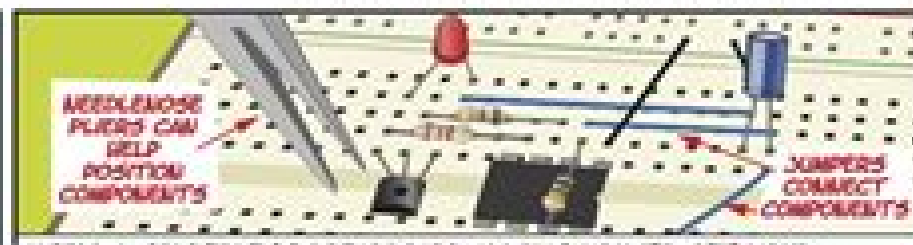
ROWS OF FIVE CONNECTED TIE-POINTS RUN PERPENDICULAR TO THE BUSES. TO CONNECT COMPONENTS, PUT THEIR LEADS IN TIE-POINTS IN THE SAME ROW.



HERE A RESISTOR IS CONNECTED TO POWER AND TO THE ANODE OF AN LED. THE OTHER LEAD OF THE LED ATTACHES TO GROUND.



YOU CAN MAKE CONNECTIONS BETWEEN ROWS OF TIE-POINTS BY INSERTING SHORT PIECES OF WIRE CALLED **JUMPERS** BETWEEN HOLES IN DIFFERENT ROWS.



USING A **SOLDERLESS BREADBOARD** ALLOWS YOU TO GET YOUR CIRCUIT UP AND RUNNING QUICKLY SO YOU CAN TEST IT. ONCE YOU HAVE IT JUST RIGHT, YOU CAN BUILD A MORE PERMANENT VERSION ON PERBOARD OR A PCB!

# Breadboard Lab Manual Electronic Fundamentals

**Shasha Hu**



## **Breadboard Lab Manual Electronic Fundamentals:**

**Fundamentals of Digital Electronics** George B. Rutkowski, Jerome E. Oleksy, 1985      Laboratory Manual for Fundamentals of Radio ... C. W. Caldwell, 1942      Electronics with Discrete Components Enrique J. Galvez, 2025-01-03

Comprehensive textbook on electronics for physicists now with more examples exercises hands on electronics labs troubleshooting tips and practical exercises Electronics with Discrete Components delivers a comprehensive overview of electronics from the perspective of a physicist In the first part on digital components after an introduction to digital electronics the text covers fundamentals of combinational logic and its implementation in combinational logic devices followed by sequential logic devices such as flip flops and memory components The second part on analog components deals with the fundamentals of signal processing filters components such as diodes and transistors and a lengthy coverage of operational amplifiers Each chapter ends with problem sets and lab projects that have been proven to work well for instruction Questions on simple aspects of the lab that students should know are also included such as regarding powering components and diagnosing signals with the oscilloscope and providing troubleshooting tips to help students find out why a particular circuit does not work The new edition of this textbook adds more worked examples exercises with answers for the self learner and end of chapter problems It adds new electronic components covers the latest digital technologies plus adds a new section of Fourier transforms in electronics In addition it features labs with Arduino or Teensy boards which have become widespread in the community as inexpensive easy to use electronics platforms Electronics with Discrete Components includes information on Number systems codes signed numbers binary functions logic families and IC wirings Filters and the frequency domain covering RC high and low pass and cascading filters FFTs as well as important considerations for filter design Connecting digital to analog and to the world through TTL CMOS and LV gates and interfacing between the logic families Charge and potential capacitors electrical current resistors magnetic components power circuits and abstractions and symbol jargon in the field The Second Edition of Electronics with Discrete Components is an ideal textbook resource for a one semester course on electronics for second year physics students as well as students from other disciplines or levels who understand elementary notions of circuits and complex numbers      *Electricity-electronics Fundamentals* Paul B. Zbar, Joseph G. Sloop, 1977      **Fundamentals of Electronic Devices and Circuits Lab Manual** David Bell, 2009-11-22 The laboratory investigations in this manual are designed to demonstrate the theoretical principles set out in the book Fundamentals of Electronic Devices and Circuits 5 e A total of 43 laboratory investigations are offered involving the construction and testing of the circuits discussed in the textbook Each investigation can normally be completed within a two hour period The procedures contain some references to the textbook however all necessary circuit and connection diagrams are provided in the manual so that investigations can also be preformed without the textbook      *School Shop*, 1979

Biology/science Materials Carolina Biological Supply Company, 1991      **Fundamentals of Digital Electronics** George

B. Rutkowski, Jerome E. Oleksy, 1978      **Kilobaud, Microcomputing**, 1979      **Radio-electronics**, 1981      *Electronics Now*, 1997      *Equipment Planning Guide for Vocational and Technical Training and Education Programmes*, 1980

*Electronics*, 1964 June issues 1941 44 and Nov issue 1945 include a buyers guide section      *Electricity-Electronics Fundamentals: A Text-Lab Manual* Paul Zbar, Joseph Sloop, 1993-02-01 This combined text and lab manual covers the basics of electricity and electronics theory Thoroughly revised it is designed as an introductory course for electronic service technicians It also is well suited for use in technical schools and two year colleges as a principal lab manual in the typical basic courses that last two or three semesters or quarters Emphasis is always placed on the commonsense manner of understanding or troubleshooting circuitry Experiments which use commonly available components have been written in a down to earth style so that students can grasp the most fundamental concepts Experimental procedures require students to think and make decisions Summaries self tests and questions are strategically placed throughout the text      *Experiments in Electronics Fundamentals and Electric Circuits Fundamentals* David Buchla, 2009 This laboratory manual is designed to accompany Electronic Fundamentals Circuits Devices and Applications Eighth Edition And Electric Circuits Fundamentals Eight Edition both by Thomas L Floyd and David M Buchla      **Industrial Education**, 1989      *A First Lab in Circuits and Electronics* Yannis P. Tsiavidis, 2018-03-07 Written by an award winning educator and researcher the sixteen experiments in this book have been extensively class tested and fine tuned This lab manual like no other provides an exciting active exploration of concepts and measurements and encourages students to tinker experiment and become creative on their own This benefits their further study and subsequent professional work The manual includes self contained background for all electronics experiments so that the lab can be run concurrently with any circuits or electronics course at any level It uses circuits in real applications which students can relate to in order to motivate them and convince them that what they learn is for real As a result the material is not only made interesting but helps motivate further study in circuits electronics communications and semiconductor devices EXTENSIVE INSTRUCTOR RESOURCES Putting the Lab Together is an extensive resource for instructors who are considering starting a lab based on this book Includes an overview of a typical lab station suggestions for choosing measurement equipment equipment list with relevant information and detailed information on parts required This resource is openly available Instructor s Manual includes hints for choosing lab TAs hints on how to run the lab experiments guidelines for shortening or combining experiments answers to experiment questions and suggestions for projects and exams This manual is available to instructors who adopt the book      *Introductory Electric Circuits* Robert T. Paynter, 1999 Provides in depth coverage of the fundamentals of electronic technology and hones in on core choice topics to ensure a solid foundation for growth Promoting understanding at all times it features a functional four color design and comes with a well designed Electronic Workbench Application Problems disk for additional practice Provides a more streamlined but more substantial introduction to electric circuits      *THE Journal*, 1987      *The British*

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