

# STARTING ELECTRONICS

'ALL YOU NEED TO GET A  
GROUNDING IN PRACTICAL  
ELECTRONICS'



**KEITH BRINDLEY**

# Starting Electronics All You Need To Get A Grounding In Practical Electronics

**Yi-Tong Ma**



## **Starting Electronics All You Need To Get A Grounding In Practical Electronics:**

**Starting Electronics** Keith Brindley, 2016-01-29 Starting Electronics is a nine chapter introductory text to electronics based on feature articles previously published as magazine articles The opening chapter provides an overview of the fundamentals of electronics The succeeding chapters present details of some easy to do experiments and the current and voltage measurement The remaining chapters cover some basic components of electronics including capacitor integrated circuit oscillator filter diodes and transistors This book will prove useful to electronic constructors and students

**Starting Electronics** Keith Brindley, 1999 A practical introduction to electronics for hobbyists students and technicians Keith Brindley introduces readers to the functions of the main component types their uses and the basic principles of building and designing electronic circuits There are breadboard layouts and the book uses multimeter not oscilloscopes This second edition contains a section on digital logic and integrated circuits

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software landscape In particular it offers a clear analysis of how the ATmega8 board works and when and where to use its derivatives The chapter on the hardware heart is vital for the rest of the book and should be studied in some detail Furthermore Arduino Internals offers important information about the CPU running the Arduino board the memory contained within it and the peripherals mounted on it To be able to write software that runs optimally on what is a fairly small embedded board one must understand how the different parts interact Later in the book you ll learn how to replace certain parts with more powerful alternatives and how to design Arduino peripherals and shields Since Arduino Internals addresses both sides of the Arduino hardware software boundary the author analyzes the compiler toolchain and again provides suggestions on how to replace it with something more suitable for your own purposes You ll also learn about how libraries enable you to change the way Arduino and software interact and how to write your own library implementing algorithms you ve devised yourself Arduino Internals also suggests alternative programming environments since many Arduino hackers have a background language other than C or Java Of course it is possible to optimize the way in which hardware and software interact an entire chapter is dedicated to this field Arduino Internals doesn t just focus on the different parts of Arduino architecture but also on the ways in which example projects can take advantage of the new and improved Arduino board Wheat employs example projects to exemplify the hacks and algorithms taught throughout the book Arduino projects straddling the hardware software boundary often require collaboration between people of different talents and skills which cannot be taken for granted For this reason Arduino Internals contains a whole chapter dedicated to collaboration and open source cooperation to make those tools and skills explicit One of the crowning achievements of an Arduino hacker is to design a shield or peripheral residing on the Arduino board which is the focus of the following chapter A later chapter takes specialization further by examining Arduino protocols and communications a field immediately relevant to shields and the communication between peripherals and the board Finally Arduino Internals integrates different skills and design techniques by presenting several projects that challenge you to put your newly acquired skills to the test Please note the print version of this title is black the eBook is full color

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