

Maxima Reference Guide

Today, scientific computing and data analysis play an integral part in most scientific disciplines ranging from mathematics and biology to imaging processing and finance. With GNU Octave you have a highly flexible tool that can solve a vast number of such different problems as complex statistical analysis and dynamical system studies. The GNU Octave Beginner's Guide gives you an introduction that enables you to solve and analyze complicated numerical problems. The book is based on numerous concrete examples and at the end of each chapter you will find exercises to test your knowledge. It's easy to learn GNU Octave, with the GNU Octave Beginner's Guide to hand. Using real-world examples the GNU Octave Beginner's Guide will take you through the most important aspects of GNU Octave. This practical guide takes you from the basics where you are introduced to the interpreter to a more advanced level where you will learn how to build your own specialized and highly optimized GNU Octave toolbox package. The book starts by introducing you to work variables like vectors and matrices, demonstrating how to perform simple arithmetic operations on these objects before explaining how to use some of the simple functionality that comes with GNU Octave, including plotting. It then goes on to show you how to write new functionality into GNU Octave and how to make a toolbox package to solve your specific problem. Finally, it demonstrates how to optimize your code and link GNU Octave with C and C++ code enabling you to solve even the most computationally demanding tasks. After reading GNU Octave Beginner's Guide you will be able to use and tailor GNU Octave to solve most numerical problems and perform complicated data analysis with ease.

The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

An essential guide to using Maxima, a popular open source symbolic mathematics engine to solve problems, build models, analyze data and explore fundamental concepts Symbolic Mathematics for Chemists offers students of chemistry a guide to Maxima, a popular open source symbolic mathematics engine that can be used to solve problems, build models, analyze data, and explore fundamental chemistry concepts. The author — a noted expert in the field — focuses on the analysis of experimental data obtained in a laboratory setting and the fitting of data and modeling experiments. The text contains a wide variety of illustrative examples and applications in physical chemistry, quantitative analysis and instrumental techniques. Designed as a practical resource, the book is organized around a series of worksheets that are provided in a companion website. Each worksheet has clearly defined goals and learning objectives and a detailed abstract that provides motivation and context for the material. This important resource: Offers an text that shows how to use popular symbolic mathematics engines to solve problems Includes a series of worksheet that are prepared in Maxima Contains step-by-step instructions written in clear terms and includes illustrative examples to enhance critical thinking, creative problem solving and the ability to connect concepts in chemistry Offers hints and case studies that help to master the basics while proficient users are offered more advanced avenues for exploration Written for advanced undergraduate and graduate students in chemistry and instructors looking to enhance their lecture or lab course with symbolic mathematics materials, Symbolic Mathematics for Chemists: A Guide for Maxima Users is an essential resource for solving and exploring quantitative problems in chemistry.

Since the publication of the first edition of this book in 2003, the status of many important invasive plants around the world has changed dramatically. Species have extended their ranges, new literature has been accumulated, and control methods have been improved. Research on some plant invaders has also focused on the species' ecology and impacts, confirming that invasive plants continue to pose serious threats to species and ecosystems. Given their range expansions and introduction via international trade, these problems will only become more serious in the future. Including colour images of each species, this up-to-date reference guide on the most important plant invaders is an invaluable tool for both researchers and policy makers.

This book offers an introduction to computer programming, numerical analysis, and other mathematical ideas that extend the basic topics learned in calculus. It illustrates how mathematicians and scientists write computer programs, covering the general building blocks of programming languages and a description of how these concepts fit together to allow computers to produce the results they do. Topics explored here include binary arithmetic, algorithms for rendering graphics, the smooth interpolation of discrete data, and the numerical approximation of non-elementary integrals. The book uses an open-source computer algebra system called Maxima. Using Maxima, first-time programmers can perform familiar tasks, such as graphing functions or solving equations, and learn the basic structures of programming before moving on to other popular programming languages. The epilogue provides some simple examples of how this process works in practice. The book will particularly appeal to students who have finished their calculus sequence.

Handbook of Open Source Tools introduces a comprehensive collection of advanced open source tools useful in developing software applications. The book contains information on more than 200 open-source tools which include software construction utilities for compilers, virtual-machines, database, graphics, high-performance computing, OpenGL, geometry, algebra, graph theory , GUIs and more. Special highlights for software construction utilities and application libraries are included. Each tool is covered in the context of a real like application development setting. This unique handbook presents a comprehensive discussion of advanced tools, a valuable asset used by most application developers and programmers; includes a special focus on Mathematical Open Source Software not available in most Open Source Software books, and introduces several tools (eg ACL2, CLIPS, CUDA, and COIN) which are not known outside of select groups, but are very powerful. Handbook of Open Source Tools is designed for application developers and programmers working with Open Source Tools. Advanced-level students concentrating on Engineering, Mathematics and Computer Science will find this reference a valuable asset as well.

“This fantastic and deep book about how to use Sage for learning and doing mathematics at all levels perfectly complements the existing Sage documentation. It is filled with many carefully thought through examples and exercises, and great care has been taken to put computational functionality into proper mathematical context. Flip to almost any random page in this amazing book, and you will learn how to play with and visualize some beautiful part of mathematics.” --- William A. Stein, CEO, SageMath, and professor of mathematics, University of Washington SageMath, or Sage for short, is an open-source mathematical software system based on the Python language and developed by an international community comprising hundreds of teachers and researchers, whose aim is to provide an alternative to the commercial products Magma, Maple, Mathematica, and MATLAB®. To achieve this, Sage relies on many open-source programs, including GAP, Maxima, PARI, and various scientific libraries for Python, to which thousands of new functions have been added. Sage is freely available and is supported by all modern operating systems. Sage provides a wonderful scientific and graphical calculator for high school students, and it efficiently supports undergraduates in their computations in analysis, linear algebra, calculus, etc. For graduate students, researchers, and engineers in various mathematical specialties, Sage provides the most recent algorithms and tools, which is why several universities around the world already use Sage at the undergraduate level.

The Maritime Engineering Reference Book is a one-stop source for engineers involved in marine engineering and naval architecture. In this essential reference, Anthony F. Molland has brought together the work of a number of the world's leading writers in the field to create an inclusive volume for a wide audience of marine engineers, naval architects and those involved in marine operations, insurance and other related fields. Coverage ranges from the basics to more advanced topics in ship design, construction and operation. All the key areas are covered, including ship flotation and stability, ship structures, propulsion, seakeeping and maneuvering. The marine environment and maritime safety are explored as well as new technologies, such as computer aided ship design and remotely operated vehicles (ROVs). Facts, figures and data from world-leading experts makes this an invaluable ready-reference for those involved in the field of maritime engineering. Professor A.F. Molland, BSc, MSc, PhD, CEng, FRINA. is Emeritus Professor of Ship Design at the University of Southampton, UK. He has lectured ship design and operation for many years. He has carried out extensive research and published widely on ship design and various aspects of ship hydrodynamics. * A comprehensive overview from best-selling authors including Bryan Barrass, Rawson and Tupper, and David Eyres * Covers basic and advanced material on marine engineering and Naval Architecture topics * Have key facts, figures and data to hand in one complete reference book

This is a complete introduction into Euler Math Toolbox, the mighty numerical and algebraic math program for schools and universities. To learn more about the program itself, visit euler-math-toolbox.de. Broadly organized around the applications of Fourier analysis, "Methods of Applied Mathematics with a MATLAB Overview" covers both classical applications in partial differential equations and boundary value problems, as well as the concepts and methods associated to the Laplace, Fourier, and discrete transforms. Transform inversion problems are also examined, along with the necessary background in complex variables. A final chapter treats wavelets, short-time Fourier analysis, and geometrically-based transforms. The computer program MATLAB is emphasized throughout, and an introduction to MATLAB is provided in an appendix. Rich in examples, illustrations, and exercises of varying difficulty, this text can be used for a one- or two-semester course and is ideal for students in pure and applied mathematics, physics, and engineering.

This accessible text presents a detailed introduction to the use of a wide range of software tools and modeling environments for use in the biosciences, as well as the fundamental mathematical background. The practical constraints presented by each modeling technique are described in detail, enabling the researcher to determine which software package would be most useful for a particular problem. Features: introduces a basic array of techniques to formulate models of biological systems, and to solve them; discusses agent-based models, stochastic modeling techniques, differential equations, spatial simulations, and Gillespie's stochastic simulation algorithm; provides exercises; describes such useful tools as the Maxima algebra system, the PRISM model checker, and the modeling environments Repast Symphony and Smoldyn; contains appendices on rules of differentiation and integration, Maxima and PRISM notation, and some additional mathematical concepts; offers supplementary material at an associated website.

An authorised reissue of the long out of print classic textbook, Advanced Calculus by the late Dr Lynn Loomis and Dr Shlomo Sternberg both of Harvard University has been a revered but hard to find textbook for the advanced calculus course for decades. This book is based on an honors course in advanced calculus that the authors gave in the 1960's. The foundational material, presented in the unstarred sections of Chapters 1 through 11, was normally covered, but different applications of this basic material were stressed from year to year, and the book therefore contains more material than was covered in any one year. It can accordingly be used (with omissions) as a text for a year's course in advanced calculus, or as a text for a three-semester introduction to analysis. The prerequisites are a good grounding in the calculus of one variable from a mathematically rigorous point of view, together with some acquaintance with linear algebra. The reader should be familiar with limit and continuity type arguments and have a certain amount of mathematical sophistication. As possible introductory texts, we mention Differential and Integral Calculus by R Courant, Calculus by T Apostol, Calculus by M Spivak, and Pure Mathematics by G Hardy. The reader should also have some experience with partial derivatives. In overall plan the book divides roughly into a first half which develops the calculus (principally the differential calculus) in the setting of normed vector spaces, and a second half which deals with the calculus of differentiable manifolds.

"Includes pressure/voltage/current volumes, OBD-2 code definitions & code-setting criteria"--Cover.

R Markdown: The Definitive Guide is the first official book authored by the core R Markdown developers that provides a comprehensive and accurate reference to the R Markdown ecosystem. With R Markdown, you can easily create reproducible data analysis reports, presentations, dashboards, interactive applications, books, dissertations, websites, and journal articles, while enjoying the simplicity of Markdown and the great power of R and other languages. In this book, you will learn Basics: Syntax of Markdown and R code chunks, how to generate figures and tables, and how to use other computing languages Built-in output formats of R Markdown: PDF/HTML/Word/RTF/Markdown documents and ioslides/Slidy/Beamer/PowerPoint presentations Extensions and applications: Dashboards, Tufte handouts, xaringan/reveal.js presentations, websites, books, journal articles, and interactive tutorials Advanced topics: Parameterized reports, HTML widgets, document templates, custom output formats, and Shiny documents. Yihui Xie is a software engineer at RStudio. He has authored and co-authored several R packages, including knitr, rmarkdown, bookdown, blogdown, shiny, xaringan, and animation. He has published three other books, Dynamic Documents with R and knitr, bookdown: Authoring Books and Technical Documents with R Markdown, and blogdown: Creating Websites with R Markdown. J.J. Allaire is the founder of RStudio and the creator of the RStudio IDE. He is an author of several packages in the R Markdown ecosystem including rmarkdown, flexdashboard, learnr, and radix. Garrett Golemund is the co-author of R for Data Science and author of Hands-On Programming with R. He wrote the lubridate R package and works for RStudio as an advocate who trains engineers to do data science with R and the Tidyverse.

This is a new type of calculus book: Students who master this text will be well versed in calculus and, in addition, possess a useful working knowledge of one of the most important mathematical software systems, namely, MACSYMA. This will equip them with the mathematical competence they need for science and engineering and the competitive workplace. The

choice of MACSYMA is not essential for the didactic goal of the book. In fact, any of the other major mathematical software systems, e. g. , AXIOM, MATHEMATICA, MAPLE, DERIVE, or REDUCE, could have been taken for the examples and for acquiring the skill in using these systems for doing mathematics on computers. The symbolic and numerical calculations described in this book will be easily performed in any of these systems by slight modification of the syntax as soon as the student understands and masters the MACSYMA examples in this book. What is important, however, is that the student gets all the information necessary to design and execute the calculations in at least one concrete implementation language as this is done in this book and also that the use of the mathematical software system is completely integrated with the text. In these times of globalization, firms which are unable to hire adequately trained technology experts will not prosper. For corporations which depend heavily on science and engineering, remaining competitive in the global economy will require hiring employees having had a traditionally rigorous mathematical education.

Perturbation methods have always been an important tool for treating nonlinear differential equations. Now the drudgery associated with them has been eliminated! This book offers computer algebra (MACSYMA) programs which implement the most popular perturbation methods. Not only does this avoid the errors associated with hand computation, but the increase in efficiency permits more complicated problems to be tackled. This book is useful both for the beginner learning perturbation methods for the first time, as well as for the researcher. Methods covered include: Lindstedt's method, center manifolds, normal forms, two variable expansion method (method of multiple scales), averaging, Lie transforms and Liapunov-Schmidt reduction. For each method the book includes an introduction and some example problems solved both by hand and by machine. The examples feature common bifurcations such as the pitchfork and the Hopf. The MACSYMA code for each method is given and suggested exercises are provided at the end of each Chapter. An Appendix offers a brief introduction to MACSYMA.

FIREARMS GUIDE 3rd EDITION Five products on one DVD every shooter must have: 1. Reference guide that presents over 55,000 models of Firearms, Airguns and Ammo from 500 manufacturers worldwide (38 countries)! • Now with Military Firearms - machine guns, assault rifles, submachine guns and automatic pistols. • Computer searchable with 14 different search criteria! Find any gun in a second! • Presents models with Tech Specs – Hi-Resolution Color Pictures – Features - Ballistics – Prices! • Over 30,000 high-resolution color pictures in resolution up to 6636 x 1492! • Up to 12 pictures per model! Zoom in to see the smallest details! • Guns are presented in different finishes, stock types and stock materials! • Exclusive U.S. and EU custom guns with price tags up to \$1,000,000! • Interlinked ammo and gun database. Check the stopping power of each gun with one click. 2. Schematics Library with over 3,000 high resolution gun schematics with parts lists from 268 manufacturers! • Search for a specific gun schematic by manufacturer, then choose the model and zoom in to see the smallest gun parts and print out any schematics 3. FFL Locator – Database of over 62,000 gun dealers in the USA with phone numbers and addresses. When you need a gun dealer find them by type of license, by state and by ZIP code 4. 500 Printable Targets – Print as many as you like! Shoot as many as you like! Choose from a great selection: game animals, silhouettes, crosshairs, sight-ins, fun-to-shoot objects, etc. Both black & white and color targets! 5. US-EU Ammo Caliber Chart - No more hassle trying to figure out which EU ammo caliber is which US ammo caliber. We've figured it out for you, from US to EU and EU to US - works both ways!

FIREARMS GUIDE 4th EDITION Five products on one DVD every shooter must have: Firearms Guide is the world's most extensive firearms, ammo and air guns reference guide and gun schematics library. It is a must have for anyone with an interest in firearms, air guns, ammunition, hunting and shooting, both for professionals and hobbyists. It is the ultimate tool to search, find, identify and research modern and historic guns. Our database of 57,000 guns and ammo from 630 manufacturers worldwide and Over 4,300 gun schematics with parts lists from 360 manufacturers is so extensive, we couldn't fit it in a book, so we put it on a double-layer DVD for your computer! Even though it is on DVD, Firearms Guide does not require any installation on the user's computer, it starts automatically when inserted, so it's really not software but a gun reference guide readable on PC. Using the Firearms Guide saves a lot of time and money for gun enthusiasts. Instead of buying several publications and surfing for hours on the internet from one manufacturer's website to another, by searching the Firearms Guide's database of 57,000 models from 630 manufacturers from around the world with 14 search criteria, the user gets a search result literally in a second. The user can check out guns, compare them and their prices, check the ammo that they use, and start another search. Plus, guns are presented with exclusive high-resolution color pictures unavailable anywhere else.- EXAMPLE 1: If you search Firearms Multimedia Guide by using this search criteria: Pistol, 45 ACP, Made in USA, Polymer frame, Stainless slide finish, With accessory rail, in price range \$500 - \$1,000 your search result will be 7 pistols. Try to do that in Google.- EXAMPLE 2: If you type in the Google search bar: Shotgun, Pump action, Thumbhole stock your search result will be 26,400 web sites. If you use the same search criteria in the Firearms Multimedia Guide your search result will be 18 shotguns.- EXAMPLE 3: If you type in the Google search bar: Pistol, 9mm Luger, Made in USA your search result will be 53,500 web sites. If you use the same search criteria in the Firearms Multimedia Guide your search result will be 72 pistols 1. Reference guide that presents over 57,000 models of Firearms, Airguns and Ammo from 630 manufacturers worldwide (45 countries)! • Now with Historic & Military Firearms - machine and submachine guns, assault rifles and other guns from Civil War, WWI, WWII, Vietnam War, etc • Computer searchable with 14 different search criteria! Find any gun in a second! • Presents models with Tech Specs – Hi-Resolution Color Pictures – Features - Ballistics – Prices! • Over 39,000 high-resolution color pictures in resolution up to 6636 x 1492! • Up to 12 pictures per model! Zoom in to see the smallest details! • Guns are presented in different finishes, stock types and stock materials! • Exclusive U.S. and EU custom guns with price tags up to \$1,000,000! • Interlinked ammo and gun database. Check the stopping power of each gun with one click. 2. Schematics Library with over 4,300 high resolution gun schematics with parts lists from 360 manufacturers! • Search for a specific gun schematic by manufacturer, then choose the model and zoom in to see the smallest gun parts and print out any schematic. • Schematics are for old and new guns 3. FFL Locator – Database of over 62,000 gun dealers in the USA with phone numbers and addresses. When you need a gun dealer find them by type of license, by state and by ZIP code. 4. 500 Printable Targets – Print as many as you like! Shoot as many as you like! Choose from a great selection: game animals, silhouettes, crosshairs, sight-ins, fun-to-shoot objects, etc. Both black & white and color targets! 5. US-EU Ammo Caliber Chart - No more hassle trying to figure out which EU ammo caliber is which US ammo caliber. We've figured it out for you, from US to EU and EU to US - works both ways!

Examines the greatest achievements of humankind, with ranking lists to provide at-a-glance overviews, covering such topics as the most widely used languages, technological successes of

the modern age, and the largest buildings.

This book constitutes the thoroughly refereed post-conference proceedings of the 5th International Conference on Knowledge, Information, and Creativity Support Systems, KCIS 2010, held in Chang Mai, Thailand, in November 2010. The 23 revised full papers presented were carefully reviewed and selected from 72 submissions. The papers cover a broad range of topics related to all knowledge science-related areas including creativity support, decision science, knowledge science, data mining, machine learning, databases, statistics, knowledge acquisition, automatic scientific discovery, data/knowledge visualization, and knowledge-based systems.

Provides information on where to go to find detailed guidance on how to use these techniques. Covers: remote sensing & surface geophysical methods; drilling & solids sampling methods; geophysical logging of boreholes; aquifer test methods; ground water sampling methods; Vadose Zone (VZ) hydrologic properties: water state, infiltration, conductivity, & flux; VZ water budget characterization methods; VZ soil-solute/gas sampling & monitoring methods; & chemical field screening & analytical methods. Charts, tables, graphs & drawings.

Economists can use computer algebra systems to manipulate symbolic models, derive numerical computations, and analyze empirical relationships among variables. Maxima is an open-source multi-platform computer algebra system that rivals proprietary software. Maxima's symbolic and computational capabilities enable economists and financial analysts to develop a deeper understanding of models by allowing them to explore the implications of differences in parameter values, providing numerical solutions to problems that would be otherwise intractable, and by providing graphical representations that can guide analysis. This book provides a step-by-step tutorial for using this program to examine the economic relationships that form the core of microeconomics in a way that complements traditional modeling techniques. Readers learn how to phrase the relevant analysis and how symbolic expressions, numerical computations, and graphical representations can be used to learn from microeconomic models. In particular, comparative statics analysis is facilitated. Little has been published on Maxima and its applications in economics and finance, and this volume will appeal to advanced undergraduates, graduate-level students studying microeconomics, academic researchers in economics and finance, economists, and financial analysts.

The new Firearms Guide 8th Edition Flash Drive & Online Combo (www.FirearmsGuide.com) is the most extensive and technologically advanced guns & ammo reference guide, gun value guide and gun schematics & blueprints library that is now offered on a superfast USB Flash Drive (for Mac & Windows) that comes in a combo with a 1 year online edition and with free updates. (Get your copy at: <http://firearmsguide.com/>) Combining both offline and online editions in a combo, gun enthusiast and professionals in the gun industry can now research and quickly find gun specs, gun values and info on over 67,000 antique and modern guns and ammo from 1,000 manufacturers worldwide. To find any gun it takes a mere second because you can search with 14 search criteria like model name, manufacturer, action, caliber, price, country of origin, year, stock type, etc. With those 14 search criteria you can perform simple or complex searches that you cannot do with Google and get precise search results every time. Over 6,800 hi-resolution printable gun schematics and blueprints are presented for gunsmiths and also gun values for 67,000 antique and modern guns based off of the 100% - 30% condition ratings are presented online for gun traders. Published since 2009, Firearms Guide is the ultimate tool to search, find, identify, research and evaluate antique and modern civilian and military guns...for every gun enthusiast, gunsmith or gun collector and trader. Thanks to the massive amount of detailed information (over 41,000 hi-res images) on antique and modern military and civilian guns and better search ability than Google (14 search criteria..caliber, action type, year, country, stock type, etc) it saves a huge amount of time and provides valuable info, prices, gun values, features, highest quality zoom able picture and printable schematics & blueprints with parts lists. This is fastest, most extensive and most modern gun book today...with free updates!

A Student's Guide to the Study, Practice, and Tools of Modern Mathematics provides an accessible introduction to the world of mathematics. It offers tips on how to study and write mathematics as well as how to use various mathematical tools, from LaTeX and Beamer to Mathematica® and Maple™ to MATLAB® and R. Along with a color insert, the text includes exercises and challenges to stimulate creativity and improve problem solving abilities. The first section of the book covers issues pertaining to studying mathematics. The authors explain how to write mathematical proofs and papers, how to perform mathematical research, and how to give mathematical presentations. The second section focuses on the use of mathematical tools for mathematical typesetting, generating data, finding patterns, and much more. The text describes how to compose a LaTeX file, give a presentation using Beamer, create mathematical diagrams, use computer algebra systems, and display ideas on a web page. The authors cover both popular commercial software programs and free and open source software, such as Linux and R. Showing how to use technology to understand mathematics, this guide supports students on their way to becoming professional mathematicians. For beginning mathematics students, it helps them study for tests and write papers. As time progresses, the book aids them in performing advanced activities, such as computer programming, typesetting, and research.

Electronics Engineer's Reference Book, Sixth Edition is a five-part book that begins with a synopsis of mathematical and electrical techniques used in the analysis of electronic systems. Part II covers physical phenomena, such as electricity, light, and radiation, often met with in electronic systems. Part III contains chapters on basic electronic components and materials, the building blocks of any electronic design. Part IV highlights electronic circuit design and instrumentation. The last part shows the application areas of electronics such as radar and computers.

From Nick Capodice & Hannah McCarthy, the hosts of New Hampshire Public Radio's Civics 101, and New Yorker cartoonist Tom Toro, A User's Guide to Democracy is a lively crash course in everything you should know about how the US government works. Do you know what the Secretary of Defense does all day? Are you sure you know the difference between the House and the Senate? Have you been pretending you know what Federalism is for the last 20 years? Don't worry--you're not alone. The American government and its processes can be dizzyingly complex and obscure. Until now. Within this book are the keys to knowing what you're talking about when you argue politics with the uncle you only see at Thanksgiving. It's the book that sits on your desk for quick reference when the nightly news boggles your mind. This approachable and informative guide gives you the lowdown on everything from the three branches of government, to what you can actually do to make your vote count, to how our founding documents affect our daily lives. Now is the time to finally understand who does what, how they do it, and the best way to get them to listen to you.

Firearms Guide is the world's first completely digital, computer searchable, firearms, ammunition and air guns reference guide on DVD-Rom for Macintosh computers! 3rd Edition of Firearms Guide for Macintosh presents over 55,000 firearms, air guns and ammo from 500 manufacturers worldwide. It is also huge Schematics Library with over 3,000 gun schematics with parts lists from 268 manufacturers. Firearms Guide for Macintosh now presents fully automatic MILITARY GUNS - machine guns, heavy machine guns submachine guns, assault rifles and automatic pistols. Even though it is on DVD, Firearms

Guide for Macintosh does not require any installation on users Mac, it starts automatically when inserted, so it is really not a software but gun reference guide and schematic library readable on Mac. UNIQUE FEATURES OF FIREARMS GUIDE 3rd EDITION FOR MACINTOSH • Presents over 55,000 models of Firearms, Airguns and Ammo from 500 manufacturers! • Now presents MILITARY guns (machine guns, submachine guns, assault rifles, etc) • Computer searchable with 14 different search criteria! Find your gun in a second! • Presents models with Tech Specs – Hi-Resolution Color Pictures - Features – Prices! • Over 36,000 high-resolution color pictures in resolution up to 6636 x 1492! • Up to 12 pictures per model! Zoom in to see smallest details! • Guns are presented in different finishes, stock types and stock materials! • Exclusive U.S. and EU bespoke guns with price tags up to \$1,000,000! • Interlinked ammo and gun database! Check the stopping power of each firearm with just one click. • SCHEMATICS LIBRARY – presents over amazing 3,000 gun schematics with parts lists from 268 manufacturers. Zoom in to see smallest gun parts and print out any schematic! • FFL LOCATOR – find any gun dealer in USA by license type or ZIP code • 500 PRINTABLE TARGETS – Choose type and print and shoot as many as you like! • US-EU CALIBER CHART – Convenient US-EU caliber conversion chart • On DVD For Mac OS X 10.6 and 10.7. Works directly from DVD. Needs no installation or internet connection. • Market price: \$39.95 BONUS VIDEO: FNH Ballista Precision Sniper Rifle - new 2012 Made in Germany sniper rifle for police & military.

Instrumentation is not a clearly defined subject, having a 'fuzzy' boundary with a number of other disciplines. Often categorized as either 'techniques' or 'applications' this book addresses the various applications that may be needed with reference to the practical techniques that are available for the instrumentation or measurement of a specific physical quantity or quality. This makes it of direct interest to anyone working in the process, control and instrumentation fields where these measurements are essential. * Comprehensive and authoritative collection of technical information * Written by a collection of specialist contributors * Updated to include chapters on the fieldbus standards, reliability, EMC, 'virtual instrumentation', fibre optics, smart and intelligent transmitters, analyzers, level and flow meters, and many more

Haynes offers the best coverage for cars, trucks, vans, SUVs and motorcycles on the market today. Each manual contains easy to follow step-by-step instructions linked to hundreds of photographs and illustrations. Included in every manual: troubleshooting section to help identify specific problems; tips that give valuable short cuts to make the job easier and eliminate the need for special tools; notes, cautions and warnings for the home mechanic; color spark plug diagnosis and an easy to use index.

The increasing world population, competition for arable land and rich fishing grounds, and environmental concerns mandate that we exploit in a sustainable way the earth's available plant and animal resources for human consumption. To that end, food chemists, technologists, and nutritionists engage in a vast number of tasks related to food availability, quality, safety, nutritional value, and sensory properties—as well as those involved in processing, storage, and distribution. To assist in these functions, it is essential they have easy access to a collection of information on the myriad compounds found in foods. This is particularly true because even compounds present in minute concentrations may exert significant desirable or negative effects on foods. Includes a foreword by Zdzislaw E. Sikorski, Gdańsk University of Technology, Poland; Editor of the CRC Press Chemical & Functional Properties of Food Components Series. Dictionary of Food Compounds, Second Edition is presented in a user-friendly format in both hard copy and fully searchable CD-ROM. It contains entries describing natural components of food raw materials and products as well as compounds added to foods or formed in the course of storage or processing. Each entry contains the name of the component, the chemical and physical characteristics, a description of functional properties related to food use, and nutritional and toxicological data. Ample references facilitate inquiry into more detailed information about any particular compound. Food Compounds Covered: Natural Food Constituents Lipids Proteins Carbohydrates Fatty acids Flavonoids Alkaloids Food Contaminants Mycotoxins Food Additives Colorants Preservatives Antioxidants Flavors Nutraceuticals Probiotics Dietary Supplements Vitamins This new edition boasts an additional 12,000 entries for a total of 41,000 compounds, including 900 enzymes found in food. No other reference work on food compounds is as complete or as comprehensive.

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