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VV9N9N - EVA CHACE

The Blue Grass Chemical Agent-Destruction Pilot Plant (BGCAPP) is under construction near Richmond, Kentucky, two dispose of one of the two remaining stockpiles of chemical munitions in the United States. The stockpile that BGCAPP will dispose of is stored at the Blue Grass Army Depot (BGAD). BGCAPP is a tenant activity on BGAD. The stockpile stored at BGAD consists of mustard agent loaded in projectiles, and the nerve agents GB and VX loaded into projectiles and M55 rockets. BGCAPP will process the rockets by cutting them, still in their shipping and firing tube (SFT), between the warhead and motor sections of the rocket. The warhead will be processed through BGCAPP. The separated rocket motors that have been monitored for chemical agent and cleared for transportation outside of BGCAPP, the subject of this report, will be disposed of outside of BGCAPP. Any motors found to be contaminated with chemical agent will be processed through BGCAPP and are not addressed in this report. Disposal Options for the Rocket Motors From Nerve Agent Rockets Stored at Blue Grass Army Depot addresses safety in handling the separated rocket motors with special attention to the electrical ignition system, the need for adequate storage space for the motors in order to maintain the planned disposal rate at BGCAPP, thermal and chemical disposal technologies, and on-site and off-site disposal options. On-site is defined as disposal on BGAD, and off-site is defined as disposal by a commercial or government facility outside of BGAD.

Folder contents: Notes on guidance booklet, Six-phase teaching programme booklet, 1 DVD, 1 poster. DfES ref: 00281-2007FLR-EN The PDF version of this document is licensed to be made available on this library catalogue via a PSI Licence to reproduce public sector information.

This computer program manual describes in two parts the auto-

mated combustor design optimization code AUTOCOM. The program code is written in the FORTRAN 4 language. The input data setup and the program outputs are described, and a sample engine case is discussed. The program structure and programming techniques are also described, along with AUTOCOM program analysis.

This engaging and clearly written textbook/reference provides a must-have introduction to the rapidly emerging interdisciplinary field of data science. It focuses on the principles fundamental to becoming a good data scientist and the key skills needed to build systems for collecting, analyzing, and interpreting data. The Data Science Design Manual is a source of practical insights that highlights what really matters in analyzing data, and provides an intuitive understanding of how these core concepts can be used. The book does not emphasize any particular programming language or suite of data-analysis tools, focusing instead on high-level discussion of important design principles. This easy-to-read text ideally serves the needs of undergraduate and early graduate students embarking on an "Introduction to Data Science" course. It reveals how this discipline sits at the intersection of statistics, computer science, and machine learning, with a distinct heft and character of its own. Practitioners in these and related fields will find this book perfect for self-study as well. Additional learning tools: Contains "War Stories," offering perspectives on how data science applies in the real world Includes "Homework Problems," providing a wide range of exercises and projects for self-study Provides a complete set of lecture slides and online video lectures at www.data-manual.com Provides "Take-Home Lessons," emphasizing the big-picture concepts to learn from each chapter Recommends exciting "Kaggle Challenges" from the online platform Kaggle Highlights "False Starts," revealing the subtle reasons why certain approaches fail Offers examples taken from the data science

television show "The Quant Shop" (www.quant-shop.com)

100 High Intensity Interval Training (HIIT) visual workouts you can customize to your fitness level and do any time, anywhere.

Orbital Mechanics for Engineering Students, Second Edition, provides an introduction to the basic concepts of space mechanics. These include vector kinematics in three dimensions; Newton's laws of motion and gravitation; relative motion; the vector-based solution of the classical two-body problem; derivation of Kepler's equations; orbits in three dimensions; preliminary orbit determination; and orbital maneuvers. The book also covers relative motion and the two-impulse rendezvous problem; interplanetary mission design using patched conics; rigid-body dynamics used to characterize the attitude of a space vehicle; satellite attitude dynamics; and the characteristics and design of multi-stage launch vehicles. Each chapter begins with an outline of key concepts and concludes with problems that are based on the material covered. This text is written for undergraduates who are studying orbital mechanics for the first time and have completed courses in physics, dynamics, and mathematics, including differential equations and applied linear algebra. Graduate students, researchers, and experienced practitioners will also find useful review materials in the book. NEW: Reorganized and improved discussions of coordinate systems, new discussion on perturbations and quaternions NEW: Increased coverage of attitude dynamics, including new Matlab algorithms and examples in chapter 10 New examples and homework problems

Training Circular (TC) 3-09.81, "Field Artillery Manual Cannon Gunnery," sets forth the doctrine pertaining to the employment of artillery fires. It explains all aspects of the manual cannon gunnery problem and presents a practical application of the science of ballistics. It includes step-by-step instructions for manually solving

the gunnery problem which can be applied within the framework of decisive action or unified land operations. It is applicable to any Army personnel at the battalion or battery responsible to delivered field artillery fires. The principal audience for ATP 3-09.42 is all members of the Profession of Arms. This includes field artillery Soldiers and combined arms chain of command field and company grade officers, middle-grade and senior noncommissioned officers (NCO), and battalion and squadron command groups and staffs. This manual also provides guidance for division and corps leaders and staffs in training for and employment of the BCT in decisive action. This publication may also be used by other Army organizations to assist in their planning for support of battalions. This manual builds on the collective knowledge and experience gained through recent operations, numerous exercises, and the deliberate process of informed reasoning. It is rooted in time-tested principles and fundamentals, while accommodating new technologies and diverse threats to national security.

This book is not a book but a manual on how you can get your six-pack abs in 90 days. I don't make tall promises or false claims that this is the book, which will give you the results, what you were waiting for years! But this manual will surely align you on a right fitness path, which was missing in your fitness journey for so many years. Six pack abs is not just about results but is a journey, which I have documented in this book. What you will find is a 90 days guide for your training, diet and supplements, which will help you transform your body by taking it to the next level. This book/manual is a tried and tested formula, which I have successfully tried on myself. And please note I am not a bodybuilder nor a competitive athlete but a regular person in pursuit to get the six-

pack abs. Six pack abs is not rocket science, which is exactly what you will understand in this manual. Whatever your fitness level is, you will be pleasantly surprised with the results from this program. As we speak, this program is being implemented in premium health clubs and gyms as their go-to signature program, helping people get back in their best possible shape. It is time you take your shirt off and not get embarrassed!

The operational amplifier ("op amp") is the most versatile and widely used type of analog IC, used in audio and voltage amplifiers, signal conditioners, signal converters, oscillators, and analog computing systems. Almost every electronic device uses at least one op amp. This book is Texas Instruments' complete professional-level tutorial and reference to operational amplifier theory and applications. Among the topics covered are basic op amp physics (including reviews of current and voltage division, Thevenin's theorem, and transistor models), idealized op amp operation and configuration, feedback theory and methods, single and dual supply operation, understanding op amp parameters, minimizing noise in op amp circuits, and practical applications such as instrumentation amplifiers, signal conditioning, oscillators, active filters, load and level conversions, and analog computing. There is also extensive coverage of circuit construction techniques, including circuit board design, grounding, input and output isolation, using decoupling capacitors, and frequency characteristics of passive components. The material in this book is applicable to all op amp ICs from all manufacturers, not just TI. Unlike textbook treatments of op amp theory that tend to focus on idealized op amp models and configuration, this title uses idealized models only when ne-

cessary to explain op amp theory. The bulk of this book is on real-world op amps and their applications; considerations such as thermal effects, circuit noise, circuit buffering, selection of appropriate op amps for a given application, and unexpected effects in passive components are all discussed in detail. *Published in conjunction with Texas Instruments *A single volume, professional-level guide to op amp theory and applications *Covers circuit board layout techniques for manufacturing op amp circuits.

Popular Science gives our readers the information and tools to improve their technology and their world. The core belief that Popular Science and our readers share: The future is going to be better, and science and technology are the driving forces that will help make it better.

This newly reissued debut book in the Rutgers University Press Classics Imprint is the story of the search for a rocket propellant which could be trusted to take man into space. This search was a hazardous enterprise carried out by rival labs who worked against the known laws of nature, with no guarantee of success or safety. Acclaimed scientist and sci-fi author John Drury Clark writes with irreverent and eyewitness immediacy about the development of the explosive fuels strong enough to negate the relentless restraints of gravity. The resulting volume is as much a memoir as a work of history, sharing a behind-the-scenes view of an enterprise which eventually took men to the moon, missiles to the planets, and satellites to outer space. A classic work in the history of science, and described as "a good book on rocket stuff...that's a really fun one" by SpaceX founder Elon Musk, readers will want to get their hands on this influential classic, available for the first time in decades.