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The Tongue and Quill - Air Force 2019-10-11
The Tongue and Quill has been a valued Air Force resource for decades and many Airmen from our Total Force of uniformed and civilian members have contributed their talents to

various editions over the years. This revision is built upon the foundation of governing directives and user's inputs from the unit level all the way up to Headquarters Air Force. A small team of Total Force Airmen from the Air University, the

United States Air Force Academy, Headquarters Air Education and Training Command (AETC), the Air Force Reserve Command (AFRC), Air National Guard (ANG), and Headquarters Air Force compiled inputs from the field and rebuilt The Tongue and Quill to meet the needs of today's Airmen. The team put many hours into this effort over a span of almost two years to improve the content, relevance, and organization of material throughout this handbook. As the final files go to press it is the desire of The Tongue and Quill team to say thank you to every Airman who assisted in making this edition better; you have our sincere appreciation!

Engineering Psychology and Cognitive Ergonomics: Cognition and Design - Don Harris
2017-06-28

This book constitutes the proceedings of the 14th International Conference on Engineering Psychology and Cognitive Ergonomics, EPCE 2017, held in Vancouver, Canada, in July 2017. HCII 2017 received a total of 4340 submissions,

of which 1228 papers were accepted for publication after a careful reviewing process. The papers thoroughly cover the entire field of Human-Computer Interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. The two volumes set of EPCE 2017 presents 58 papers which are organized in the following topical sections: cognition and design, cognition in aviation and space, cognition and driving, mental workload and performance, psychological and emotional issues in interaction, situation awareness and control.

TRIZ - The Theory of Inventive Problem Solving - Denis Cavallucci 2017-07-25

The work presented here is generally intended for engineers, educators at all levels, industrialists, managers, researchers and political representatives. Offering a snapshot of various types of research conducted within the field of TRIZ in France, it represents a unique resource. It has been two decades since the

TRIZ theory originating in Russia spread across the world. Every continent adopted it in a different manner – sometimes by glorifying its potential and its perspectives (the American way); sometimes by viewing it with mistrust and suspicion (the European way); and sometimes by adopting it as-is, without questioning it further (the Asian way). However, none of these models of adoption truly succeeded. Today, an assessment of TRIZ practices in education, industry and research is necessary. TRIZ has expanded to many different scientific disciplines and has allowed young researchers to reexamine the state of research in their field. To this end, a call was sent out to all known francophone research laboratories producing regular research about TRIZ. Eleven of them agreed to send one or more of their postdoctoral researchers to present their work during a seminar, regardless of the maturity or completeness of their efforts. It was followed by this book project, presenting one chapter for

every current thesis in order to reveal the breadth, the richness and the perspectives that research about the TRIZ theory could offer our society. The topics dealt with e.g. the development of new methods inspired by TRIZ, educational practices, and measuring team impact.

Algorithmic Game Theory - Vittorio Bilò
2017-08-31

This book constitutes the refereed proceedings of the 10th International Symposium on Algorithmic Game Theory, SAGT 2017, held in L'Aquila, Italy, in September 2017. The 30 full papers presented were carefully reviewed and selected from 66 submissions. The papers cover various important aspects of algorithmic game theory such as auctions, computational aspects of games, congestion games, network and opinion formation games, mechanism design, incentives and regret minimization, and resource allocation.

Use of Services for Family Planning and

Infertility, United States - Gerry E. Hendershot
1988

**Research into Design for Communities,
Volume 2** - Amaresh Chakrabarti 2017-04-13

This book showcases cutting-edge research papers from the 6th International Conference on Research into Design (ICoRD 2017) - the largest in India in this area - written by eminent researchers from across the world on design process, technologies, methods and tools, and their impact on innovation, for supporting design for communities. While design traditionally focused on the development of products for the individual, the emerging consensus on working towards a more sustainable world demands greater attention to designing for and with communities, so as to promote their sustenance and harmony - within each community and across communities. The special features of the book are the insights into the product and system innovation process, and the host of

methods and tools from all major areas of design research for the enhancement of the innovation process. The main benefit of the book for researchers in various areas of design and innovation are access to the latest quality research in this area, with the largest collection of research from India. For practitioners and educators, it is exposure to an empirically validated suite of theories, models, methods and tools that can be taught and practiced for design-led innovation. The contents of this volume will be of use to researchers and professionals working in the areas on industrial design, manufacturing, consumer goods, and industrial management.

**Technical Reports Awareness Circular :
TRAC.** - 1989-12

Pocketbook of Mathematical Functions -
Milton Abramowitz 1984

Scientific and Technical Aerospace Reports -

1995

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Remotely Piloted Aircraft Systems - Nancy J. Cooke 2016-08-12

Highlights the human components of Remotely Piloted Aircraft Systems, their interactions with the technology and each other, and the implications of human capabilities and limitations for the larger system Considers human factors issues associated with RPAS, but within the context of a very large system of people, other vehicles, policy, safety concerns, and varying applications Chapters have been contributed by world class experts in HSI and those with operational RPAS experience Considers unintended consequences associated with taking a more myopic view of this system Examines implications for practice, policy, and

research Considers both civil and military aspects of RPAS

Cumulated Index Medicus - 1980

Commerce Business Daily - 1998-05

Hardware Security - Swarup Bhunia 2018-10-30
Hardware Security: A Hands-On Learning Approach provides a broad, comprehensive and practical overview of hardware security that encompasses all levels of the electronic hardware infrastructure. It covers basic concepts like advanced attack techniques and countermeasures that are illustrated through theory, case studies and well-designed, hands-on laboratory exercises for each key concept. The book is ideal as a textbook for upper-level undergraduate students studying computer engineering, computer science, electrical engineering, and biomedical engineering, but is also a handy reference for graduate students, researchers and industry professionals. For

academic courses, the book contains a robust suite of teaching ancillaries. Users will be able to access schematic, layout and design files for a printed circuit board for hardware hacking (i.e. the HaHa board) that can be used by instructors to fabricate boards, a suite of videos that demonstrate different hardware vulnerabilities, hardware attacks and countermeasures, and a detailed description and user manual for companion materials. Provides a thorough overview of computer hardware, including the fundamentals of computer systems and the implications of security risks Includes discussion of the liability, safety and privacy implications of hardware and software security and interaction Gives insights on a wide range of security, trust issues and emerging attacks and protection mechanisms in the electronic hardware lifecycle, from design, fabrication, test, and distribution, straight through to supply chain and deployment in the field

The Theory of Functions - Edward Charles

Titchmarsh 2002

Winter Waterfront : Year-round Use in Metropolitan Toronto - Xenia Klinger 1991

Measure, Lebesgue Integrals and Hilbert Space - Andreĭ Nikolaevich Kolmogorov 1961

Research Awards Index - 1978

Government Reports Announcements & Index - 1992

Technical Abstract Bulletin - 1980

Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables - Milton Abramowitz 1964

Uncertainty Models for Knowledge-based Systems - Irwin R. Goodman 1985

Telephone Directory - United States. Department of Defense 1980

Each issue includes a classified section on the organization of the Dept.

Building Electro-Optical Systems - Philip C. D. Hobbs 2022-01-26

Building Electro-Optical Systems In the newly revised third edition of Building Electro-Optical Systems: Making It All Work, renowned Dr. Philip C. D. Hobbs delivers a birds-eye view of all the topics you'll need to understand for successful optical instrument design and construction. The author draws on his own work as an applied physicist and consultant with over a decade of experience in designing and constructing electro-optical systems from beginning to end. The book's topics are chosen to allow readers in a variety of disciplines and fields to quickly and confidently decide whether a given device or technique is appropriate for their needs. Using accessible prose and intuitive organization, Building Electro-Optical Systems

remains one of the most practical and solution-oriented resources available to graduate students and professionals. The newest edition includes comprehensive revisions that reflect progress in the field of electro-optical instrument design and construction since the second edition was published. It also offers approximately 350 illustrations for visually oriented learners. Readers will also enjoy: A thorough introduction to basic optical calculations, including wave propagation, detection, coherent detection, and interferometers Practical discussions of sources and illuminators, including radiometry, continuum sources, incoherent line sources, lasers, laser noise, and diode laser coherence control Explorations of optical detection, including photodetection in semiconductors and signal-to-noise ratios Full treatments of lenses, prisms, and mirrors, as well as coatings, filters, and surface finishes, and polarization Perfect for graduate students in physics, electrical

engineering, optics, and optical engineering, Building Electro-Optical Systems is also an ideal resource for professional designers working in optics, electro-optics, analog electronics, and photonics.

Government Reports Announcements & Index - 1989

Cognitive Impairment in Major Depressive Disorder - Roger S. McIntyre 2016-03-17

The first book to comprehensively assemble research, clinical, and public policy perspectives on cognitive dysfunction in major depressive disorder.

Continual Improvement: A Bibliography with Indexes, 1992-1993 - 1994

Federal Information Sources & Systems -

Maximum Entropy and Bayesian Methods - P.F. Fougère 2012-12-06

This volume represents the proceedings of the

Ninth Annual MaxEnt Workshop, held at Dartmouth College in Hanover, New Hampshire, on August 14-18, 1989. These annual meetings are devoted to the theory and practice of Bayesian Probability and the Maximum Entropy Formalism. The fields of application exemplified at MaxEnt '89 are as diverse as the foundations of probability theory and atmospheric carbon variations, the 1987 Supernova and fundamental quantum mechanics. Subjects include sea floor drug absorption in man, pressures, neutron scattering, plasma equilibrium, nuclear magnetic resonance, radar and astrophysical image reconstruction, mass spectrometry, generalized parameter estimation, delay estimation, pattern recognition, heave responses in underwater sound and many others. The first ten papers are on probability theory, and are grouped together beginning with the most abstract followed by those on applications. The tenth paper involves both Bayesian and MaxEnt methods and serves as a bridge to the remaining

papers which are devoted to Maximum Entropy theory and practice. Once again, an attempt has been made to start with the more theoretical papers and to follow them with more and more practical applications. Papers number 29, 30 and 31, by Kesaven, Seth and Kapur, represent a somewhat different, perhaps even "unorthodox" viewpoint, and are included here even though the editor and, indeed many in the audience at Dartmouth, disagreed with their content. I feel that scientific disagreements are essential in any developing field, and often lead to a deeper understanding.

Cutaneous Drug Reactions - Alfred Krebs
1992-01-01

A Karger 'Publishing Highlights 1890-2015' title A wealth of information and its clear organization make this survey of cutaneous drug reactions an indispensable reference source for the dermatologist and any physician prescribing drugs. It is the only publication which offers a systematic approach to the whole therapeutic

armamentarium, as well as to the signs and symptoms affecting skin, mucous membranes, nails and hair. The information, documented by 5600 references, is presented in tabular form to allow quick location of needed data. Convenient indexes permit the user to trace either the side effects of specific drugs and their frequency or the possible drug causes of cutaneous reactions. The drug index contains both generic and brand names. Now entirely in English, this expanded and updated edition is easy to use and serves as both a practical diagnostic aid and an important source of references to the world literature.

Department of Defense Dictionary of Military and Associated Terms - United States. Joint Chiefs of Staff 1994

The Mathematical-Function Computation Handbook - Nelson H.F. Beebe 2017-08-20

This highly comprehensive handbook provides a substantial advance in the computation of elementary and special functions of

mathematics, extending the function coverage of major programming languages well beyond their international standards, including full support for decimal floating-point arithmetic. Written with clarity and focusing on the C language, the work pays extensive attention to little-understood aspects of floating-point and integer arithmetic, and to software portability, as well as to important historical architectures. It extends support to a future 256-bit, floating-point format offering 70 decimal digits of precision. Select Topics and Features: references an exceptionally useful, author-maintained MathCW website, containing source code for the book's software, compiled libraries for numerous systems, pre-built C compilers, and other related materials; offers a unique approach to covering mathematical-function computation using decimal arithmetic; provides extremely versatile appendices for interfaces to numerous other languages: Ada, C#, C++, Fortran, Java, and Pascal; presupposes only basic familiarity with

computer programming in a common language, as well as early level algebra; supplies a library that readily adapts for existing scripting languages, with minimal effort; supports both binary and decimal arithmetic, in up to 10 different floating-point formats; covers a significant portion (with highly accurate implementations) of the U.S National Institute of Standards and Technology's 10-year project to codify mathematical functions. This highly practical text/reference is an invaluable tool for advanced undergraduates, recording many lessons of the intermingled history of computer hardware and software, numerical algorithms, and mathematics. In addition, professional numerical analysts and others will find the handbook of real interest and utility because it builds on research by the mathematical software community over the last four decades.

[Intrinsic motivations and open-ended development in animals, humans, and robots](#) - Gianluca Baldassarre 2015-02-10

The aim of this Research Topic for Frontiers in Psychology under the section of Cognitive Science and Frontiers in Neurorobotics is to present state-of-the-art research, whether theoretical, empirical, or computational investigations, on open-ended development driven by intrinsic motivations. The topic will address questions such as: How do motivations drive learning? How are complex skills built up from a foundation of simpler competencies? What are the neural and computational bases for intrinsically motivated learning? What is the contribution of intrinsic motivations to wider cognition? Autonomous development and lifelong open-ended learning are hallmarks of intelligence. Higher mammals, and especially humans, engage in activities that do not appear to directly serve the goals of survival, reproduction, or material advantage. Rather, a large part of their activity is intrinsically motivated - behavior driven by curiosity, play, interest in novel stimuli and surprising events,

autonomous goal-setting, and the pleasure of acquiring new competencies. This allows the cumulative acquisition of knowledge and skills that can later be used to accomplish fitness-enhancing goals. Intrinsic motivations continue during adulthood, and in humans artistic creativity, scientific discovery, and subjective well-being owe much to them. The study of intrinsically motivated behavior has a long history in psychological and ethological research, which is now being reinvigorated by perspectives from neuroscience, artificial intelligence and computer science. For example, recent neuroscientific research is discovering how neuromodulators like dopamine and noradrenaline relate not only to extrinsic rewards but also to novel and surprising events, how brain areas such as the superior colliculus and the hippocampus are involved in the perception and processing of events, novel stimuli, and novel associations of stimuli, and how violations of predictions and expectations

influence learning and motivation. Computational approaches are characterizing the space of possible reinforcement learning algorithms and their augmentation by intrinsic reinforcements of different kinds. Research in robotics and machine learning is yielding systems with increasing autonomy and capacity for self-improvement: artificial systems with motivations that are similar to those of real organisms and support prolonged autonomous learning. Computational research on intrinsic motivation is being complemented by, and closely interacting with, research that aims to build hierarchical architectures capable of acquiring, storing, and exploiting the knowledge and skills acquired through intrinsically motivated learning. Now is an important moment in the study of intrinsically motivated open-ended development, requiring contributions and integration across a large number of fields within the cognitive sciences. This Research Topic aims to contribute to this

effort by welcoming papers carried out with ethological, psychological, neuroscientific and computational approaches, as well as research that cuts across disciplines and approaches.

Documentation Abstracts - 1994

Nonprint Products Catalog - Defense Technical Information Center (U.S.)

Numerical Methods - George Lindfield
2018-10-10

The fourth edition of Numerical Methods Using MATLAB® provides a clear and rigorous introduction to a wide range of numerical methods that have practical applications. The authors' approach is to integrate MATLAB® with numerical analysis in a way which adds clarity to the numerical analysis and develops familiarity with MATLAB®. MATLAB® graphics and numerical output are used extensively to clarify complex problems and give a deeper understanding of their nature. The text provides

an extensive reference providing numerous useful and important numerical algorithms that are implemented in MATLAB® to help researchers analyze a particular outcome. By using MATLAB® it is possible for the readers to tackle some large and difficult problems and deepen and consolidate their understanding of problem solving using numerical methods. Many worked examples are given together with exercises and solutions to illustrate how numerical methods can be used to study problems that have applications in the biosciences, chaos, optimization and many other fields. The text will be a valuable aid to people working in a wide range of fields, such as engineering, science and economics. Features many numerical algorithms, their fundamental principles, and applications Includes new sections introducing Simulink, Kalman Filter, Discrete Transforms and Wavelet Analysis Contains some new problems and examples Is user-friendly and is written in a conversational

and approachable style Contains over 60 algorithms implemented as MATLAB® functions, and over 100 MATLAB® scripts applying numerical algorithms to specific examples
How the Army Runs: A Senior Leader Reference Handbook, 2017-2018 (31st Edition) - U.S. Army War College 2019-11-21
This text explains and synthesizes the functioning and relationships of numerous Defense, Joint, and Army organizations, systems, and processes involved in the development and sustainment of trained and ready forces for the Combatant Commanders. It is designed to be used by the faculty and students at the U.S. Army War College (as well as other training and educational institutions) as they improve their knowledge and understanding of "How the Army Runs." We are proud of the value that senior commanders and staffs place in this text and are pleased to continue to provide this reference.
Object-Oriented Implementation of Numerical Methods - Didier H. Besset 2001

"There are few books that show how to build programs of any kind. One common theme is compiler building, and there are shelves full of them. There are few others. It's an area, or a void, that needs filling. this book does a great job of showing how to build numerical analysis programs." -David N. Smith, IBM T J Watson Research Center Numerical methods naturally lend themselves to an object-oriented approach. Mathematics builds high- level ideas on top of previously described, simpler ones. Once a property is demonstrated for a given concept, it can be applied to any new concept sharing the same premise as the original one, similar to the ideas of reuse and inheritance in object-oriented (OO) methodology. Few books on numerical methods teach developers much about designing and building good code. Good computing routines are problem-specific. Insight and understanding are what is needed, rather than just recipes and black box routines. Developers need the ability to construct new programs for

different applications. Object-Oriented Implementation of Numerical Methods reveals a complete OO design methodology in a clear and systematic way. Each method is presented in a consistent format, beginning with a short explanation and following with a description of the general OO architecture for the algorithm. Next, the code implementations are discussed and presented along with real-world examples that the author, an experienced software engineer, has used in a variety of commercial applications. Features: Reveals the design methodology behind the code, including design patterns where appropriate, rather than just presenting canned solutions. Implements all methods side by side in both Java and Smalltalk. This contrast can significantly enhance your understanding of the nature of OO programming languages. Provides a step-by-step pathway to new object-oriented techniques for programmers familiar with using procedural languages such as C or Fortran for numerical methods. Includes a

chapter on data mining, a key application of numerical methods.

Compressive Sensing Based Algorithms for Electronic Defence - Amit Kumar Mishra
2016-12-22

This book details some of the major developments in the implementation of compressive sensing in radio applications for electronic defense and warfare communication use. It provides a comprehensive background to the subject and at the same time describes some novel algorithms. It also investigates application value and performance-related parameters of compressive sensing in scenarios such as direction finding, spectrum monitoring, detection, and classification.

Johns and Cunningham's The Physics of Radiology - Eva Bezak 2021-03-01

The fifth edition of this respected book encompasses all the advances and changes that have been made since it was last revised. It not only presents new ideas and information, it

shifts its emphases to accurately reflect the inevitably changing perspectives in the field engendered by progress in the understanding of radiological physics. The rapid development of computing technology in the three decades since the publication of the fourth edition has enabled the equally rapid expansion of radiology, radiation oncology, nuclear medicine and radiobiology. The understanding of these clinical disciplines is dependent on an appreciation of the underlying physics. The basic radiation physics of relevance to clinical oncology, radiology and nuclear medicine has undergone little change over the last 70 years, so much of the material in the introductory chapters retains the essential flavour of the fourth edition, updated as required. This book is written to help the practitioners in these fields understand the physical science, as well as to serve as a basic tool for physics students who intend working as medical radiation physicists in these clinical fields. It is the authors' hope that students and

practitioners alike will find the fifth edition of *The Physics of Radiology* lucid and straightforward.

Modeling and Analysis of Dynamic Systems -

Ramin S. Esfandiari 2018-01-29

Modeling and Analysis of Dynamic Systems, Third Edition introduces MATLAB®, Simulink®, and Simscape™ and then utilizes them to perform symbolic, graphical, numerical, and simulation tasks. Written for senior level courses/modules, the textbook meticulously

covers techniques for modeling a variety of engineering systems, methods of response analysis, and introductions to mechanical vibration, and to basic control systems. These features combine to provide students with a thorough knowledge of the mathematical modeling and analysis of dynamic systems. The Third Edition now includes Case Studies, expanded coverage of system identification, and updates to the computational tools included.