1. Record Nr. UNINA9910150466203321

Autore	Pimsleur
Titolo	Pimsleur Chinese (Cantonese) Level 1 Lessons 26-30 : Learn to Speak and Understand Cantonese Chinese with Pimsleur Language Programs
Pubbl/distr/stampa	: Pimsleur (Simon & Schuster)
ISBN	1-4423-1760-4
Lingua di pubblicazione	Inglese
Formato	Musica
Livello bibliografico	Monografia
Sommario/riassunto	The Pimsleur® Method: the easiest, fastest way to learn a new language. Completely portable, easily downloadable, and lots of fun. Youll be speaking and understanding in no time flat!Chinese Cantonese Phase 1, Units 26-30 build on material taught in prior units. Each lesson provides 30 minutes of spoken language practice, with an introductory conversation, and new vocabulary and structures. Detailed instructions enable you to understand and participate in the conversation. Each lesson contains practice for vocabulary introduced in previous lessons. The emphasis is on pronunciation and comprehension, and on learning tospeakCantonese Chinese. One hour of recorded Cultural Notes are included at the end of Unit 30. These notes are designed to provide you with some insight into Chinese culture. A Notes Booklet is also included in PDF format.

2. Record Nr. UNINA9910886077203321

Autore	Alikhanov Anatoly
Titolo	Current Problems of Applied Mathematics and Computer Systems : CPAMCS 2023 / / edited by Anatoly Alikhanov, Andrei Tchernykh, Mikhail Babenko, Irina Samoylenko
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2024
ISBN	3-031-64010-1
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (660 pages)
Collana	Lecture Notes in Networks and Systems, , 2367-3389 ; ; 1044
Altri autori (Persone)	TchernykhAndrei BabenkoMikhail SamoylenkoIrina
Disciplina	620
Soggetti	Engineering mathematics Engineering - Data processing Mathematical and Computational Engineering Applications Data Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Intro -- Contents -- About the Editors -- Numerical Methods in Scientific Computing -- On Diophantine Systems with Sum of Squares and Linear Form Satisfying a Congruential Condition of a Special Form -- 1 Introduction -- 2 Reduction of the Initial System of Diophantine Equations to a System Without a Congruential Condition -- 3 Lemmas on the Number of Solutions of Congruences for the Sum of Squares -- 4 Main Results on the Number of Solutions of the Diophantine System -- 5 Conclusion -- References -- Numerical Solution of the Problem of Sediment Transport Based on an Improved Version of the Alternating-Triangular Method with Improved Spectral Estimates -- 1 Introduction -- 2 Materials and Methods -- 2.1 Initial-Boundary Value Problem of Sediment Transport and Its Linearization on a Time Grid -- 2.2 Improved Alternating-Triangular Method for Solving the Difference Linearized Problem of Sediment Transport -- 2.3 Improvement of the Estimate 1 of the Alternating-Triangular Method and the Expected Decrease in the Number of Iterations Due to This -- 3 Results -- 4 Conclusion -- References -- Combined

Regularization Method for Solving an Implicit Operator Equation of the First Kind -- 1 Introduction -- 2 Problem Statement -- 3 Regulation of the Solution of the Problem: -- 4 Conclusion -- References -- Forced Longitudinal Oscillations of Vertical Rods with Concentrated Mass -- 1 Forced Harmonic Longitudinal Vibrations -- 2 Forced Random Fluctuations -- 3 Conclusions -- References -- Method of Guaranteed Collision Avoidance with Multiple Unpredictable Target-Vessels -- 1 Introduction -- 2 Materials and Methods -- 2.1 Problem Formulation -- 2.2 Guaranteed Safe Trajectories Leading to the Target Waypoint -- 3 Simulation Results -- 4 Discussion -- 5 Conclusion -- References. Computer-Oriented Lyapunov Stability Criteria for Systems of Nonlinear Ordinary Differential Equations -- 1 Introduction -- 2 Materials and Methods -- 3 Results -- 4 Discussion -- 5 Conclusion -- References -- Asymptotic Estimates of the Horizontal Wind Retrieval Accuracy from Lidar Remote Sensing Data -- 1 Introduction -- 2 Problem Statement -- 3 Technique of the Estimates Calculation -- 4 Estimates for Root-Mean-Square Retrieval Errors -- 5 Effect of Range on Retrieval Errors -- 6 Conclusion -- References -- Effect of Wind Field Deformation on the Wind Components Retrieval Accuracy from Lidar Measurements -- 1 Introduction -- 2 Problem Statement -- 3 Technique of the Estimates Calculation -- 4 Discussion -- 5 Conclusion -- References -- On Vibration of Multi-span Continuous Beam in View of Rotational Inertia -- 1 Introduction. Kinematically Excited Vibration by Harmonics -- 2 Kinematically Excited Oscillations Under Random Disturbances -- 3 Conclusion -- References -- Information and Computation Systems for Distributed Environments -- Load Balancing Methods for Distributed Data Storage: Challenges and Opportunities -- 1 Introduction -- 2 Load Balancing -- 3 Load Balancing Methods -- 3.1 Round Robin -- 3.2 Least Connection -- 3.3 IP Hash -- 3.4 Weighted Round Robin -- 4 Results -- 5 Hybrid Method Load Balancing -- 6 Conclusion -- References -- Method for Detecting and Correcting Errors in Arithmetic Operations Based on Rank of a Number -- 1 Introduction -- 2 Method for Detecting and Correcting Errors in Arithmetic Operations -- 3 Method for Calculating the Rank of a Number -- 4 Conclusion -- References -- Toward Understanding Uncertainty in Fog-Cloud Computing for Big Data Storage and Processing -- 1 Introduction -- 2 Review of Existing Works -- 3 Uncertainty in Fog Computing -- 4 Approaches to Reduce Uncertainty -- 4.1 Data Fusion.
4.2 Machine Learning -- 4.3 Probabilistic Methods -- 4.4 Knowledge Representation -- 4.5 Crowdsourcing -- 5 Towards Secure Fog Computing -- 6 Planning Under Uncertainty -- 7 Conclusions -- References -- Simulation of a Coaxial Resonator of a Frequency-Selective Device for Communication Systems, Radio Navigation and Radar -- 1 Introduction -- 2 Materials and Methods -- 2.1 Types of Coaxial Resonators -- 2.2 Analytical Models of Double CR -- 3 Results -- 4 Conclusion -- References -- Analytical Review of Orchestration Methods for Distributed Computing Systems Under Conditions of Dynamic Scaling -- 1 Introduction -- 2 Orchestration -- 3 Analitycal Rewiev -- 3.1 A Template-Based Orchestration -- 3.2 API Based Orchestration -- 3.3 Container Orchestration -- 3.4 Orchestration by Hand -- 3.5 Hybrid Orchestration -- 3.6 Math Modeling -- 3.7 Machine Learning -- 3.8 Game Theory -- 4 Results -- 5 Conclusion -- References -- Modeling of Density Properties of Subsiding Soils Under Explosive Impact -- 1 Introduction -- 2 Materials and Methods -- 3 Results -- 4 Discussion -- 5 Conclusion -- References -- Comparative Analysis of Error Correction Devices in Modular Redundant Codes -- 1 Introduction -- 2 Materials

and Methods -- 2.1 Principles of Modular Redundant Codes Construction -- 2.2 Error Correction by the Method of Projections -- 2.3 Error Correction by the Error Interval Method -- 3 Results -- 4 Discussion -- 5 Conclusion -- References -- Estimation of the Solution of a Spatial Parabolic Equation Describing Anisotropic Geological Systems -- 1 Introduction -- 2 Materials and Methods -- 3 Results -- 4 Conclusion -- References -- Development of a Mathematical Model of the Software Solution «Bioeconomical Diagnostics of Health Protection» -- 1 Introduction -- 2 Materials and Methods -- 2.1 Calculation Formulas. First Rule -- 2.2 Calculation Formulas. RULE 2. 2.3 Calculation Formulas. RULE 3 -- 3 Results -- 4 Discussion -- 5 Conclusion -- References -- Fault Tolerant System for Data Storage, Transmission and Processing in Fog Computing Using Artificial Neural Networks -- 1 Introduction -- 2 Related Research -- 2.1 Internet of Things -- 2.2 Fog Computing -- 2.3 Artificial Neural Networks -- 3 System Design and Model -- 3.1 Fault Tolerant Data Management -- 3.2 Data Collector -- 3.3 Data Analyzer and Scheduler -- 3.4 Fault Tolerant Provider -- 3.5 Decision Maker -- 3.6 ANN Uses in Fault Tolerant Data Management -- 4 Conclusion -- References -- A 17ps Two Channel TDC System Based on XILINX ZYNQ 7000 SoC -- 1 Introduction -- 2 Principle of the TDC -- 2.1 Tapped Delay Line -- 2.2 Coarse Counter -- 2.3 Implementation of TDC System -- 3 Results -- 4 Discussion -- 5 Conclusion -- References -- Investigation of the Rank of Numbers Represented in the Residue Number System -- 1 Introduction -- 2 Investigation of the Rank of a Number in a Residue Number System -- 3 Modification of the Rank Calculation Method -- 4 Sign Detection of a Number in the RNS -- 5 Simulation of Rank Calculation Methods -- 6 Conclusions -- References -- Power Consumption Modelling for Symmetric Block Encryption Algorithms -- 1 Introduction -- 2 Materials and Methods -- 2.1 Power Consumption Modelling -- 3 Results -- 3.1 Advanced Encryption Standard Power Consumption Modelling -- 3.2 PRESENT Cipher Power Consumption Modelling -- 3.3 Kalina Cipher Power Consumption Modelling -- 4 Conclusion -- References -- Recognition of Particle Impacts in Acoustic Fixing of Dust Flow Using an Artificial Neural Network -- 1 Introduction -- 2 Measurements in the Field -- 3 Proposed Neural Network Method for Audio Signal Analysis -- 3.1 Database Design -- 3.2 Proposed Artificial Neural Network -- 4 Conclusion -- References.
Data Center Load Balancing Method Based on Nonlinear Network Traffic Analysis -- 1 Introduction -- 2 Materials and Methods -- 2.1 Problem Statement -- 2.2 Research Methodology -- 3 Results -- 4 Discussion -- 5 Conclusion -- References -- Methodology for Assessing the Security Risks of Cyber-Physical Systems -- 1 Introduction -- 2 Unmanned Aerial Vehicle Architecture and Risk Assessment -- 2.1 Unmanned Aerial Vehicle Architecture -- 2.2 Risk Assessment Methods -- 3 Development of a Methodology for Assessing Risks -- 3.1 Risk Assessment Methodology -- 3.2 Results -- 4 Discussion -- 5 Conclusion -- References -- Analytical Review of Classification and Clustering Methods of Cyber Attacks Based on Data Mining and Neural Network Approach -- 1 Introduction -- 2 Related Research -- 3 Analysis of Methods -- 4 Discussion -- 5 Conclusion -- References -- Simulation of the Information Transmission System with Code Division of Channels with Increased Structural Stealth -- 1 Introduction -- 2 Development of the Structure of an Information Transmission System with Code Division of Channels and an Algorithm for Secure Information Exchange -- 3 Development of a Model of an Information Transmission System with Code Division of Channels with Increased Structural Secrecy -- 4 Conclusion -- References --

Hypercomplex Numbers in Cryptosystems -- 1 Introduction -- 2 HCN in Symmetric Ciphers -- 2.1 HCN-Based Hill Cipher Modifications -- 2.2 Feistel Ciphers -- 2.3 Use of Involutory Matrices -- 3 Asymmetric Cryptosystems -- 3.1 Hybrid Cryptosystem over Quaternions -- 3.2 Scheme Based on the Computational Quaternion Conjugacy Problem -- 3.3 NTRU-Like Public Key Ciphers -- 4 Conclusion -- References -- Analysis of an Existing Method for Detecting Adversarial Attacks on Deep Neural Networks -- 1 Introduction -- 2 Materials and Methods.
2.1 Stage 1: Normal Neural Network Training.

Sommario/riassunto

This book is based on the best papers accepted for presentation during the International Conference on Current Problems of Applied Mathematics and Computer Systems (APAMCS-2023). The book includes research materials on mathematical problems and solutions in the field of scientific computing, artificial intelligence, data analysis and modular computing. The scope of numerical methods in scientific computing presents original research, including mathematical models and software implementations, related to the following topics: numerical methods in scientific computing; solving optimization problems; methods for approximating functions, etc. The studies in data analysis and modular computing include contributions in the field of deep learning, neural networks, mathematical statistics, machine learning methods, residue number system and artificial intelligence. In addition, some articles focus on mathematical modeling of nonlinear physical phenomena. Finally, the book gives insights into the fundamental problems in mathematics education. The book intends for readership specializing in the field of scientific computing, parallel computing, computer technology, machine learning, information security and mathematical education.