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this book brings together papers from the 2018 international conference on communications signal processing and systems which was held in dalian china on july 14 16 2018 presenting the latest developments and discussing the interactions and links between these multidisciplinary fields the book spans topics ranging from communications signal processing and systems it is aimed at undergraduate and graduate electrical engineering computer science and mathematics students researchers and engineers from academia and industry as well as government employees

from both ecological and economical perspectives electric traction is the most favorable type of power supply for railways its reliability depends to a large degree on the contact lines which have to operate safely under all relevant

climatic conditions needing as little maintenance as possible particularly extreme demands are made if overhead contact lines are expected to ensure safe power transmission to electric traction vehicles travelling at speeds over 300 km/h the authors have used their world wide experience to provide a clear and comprehensive description of the configuration mechanical and electrical design installation and operation of contact lines for electric railways on local and long distance transportation systems the book provides students and those embarking on a career in this field with a detailed description of the subject including the electromechanical and structural requirements railway company professionals and manufacturers of contact line systems will find practical guidance in the planning and implementation of systems as well as appropriate specifications and the technical data they will need including standards and regulations since large sections of the book are dedicated to the system aspects consultant engineers can also use it as a basis for designing systems and interfaces to other subsystems of electric railway engineering

this report describes the design and implementation of a microprocessor based 64 analog channel instrumentation quality portable data acquisition and reduction system which was developed for the pump sump research facility the system controller is a zilog z80a microprocessor with 74 000 bytes of memory the pump sump project is discussed with emphasis on hardware and software three programs of this continuing project are presented one of which produces run time plots as data are being acquired new mathematical algorithms for interpolation filtering and statistical analysis are introduced

this book presents up to date techniques for addressing data management problems with logic and memory use provided by publisher

this book gathers peer reviewed contributions presented at the 2nd rilem international conference on concrete and digital fabrication digital concrete held online and hosted by the eindhoven university of technology the netherlands from 6-9 july 2020 focusing on additive and automated manufacturing technologies for the fabrication of cementitious construction materials such as 3d concrete printing powder bed printing and shotcrete 3d printing the papers highlight the latest findings in this fast growing field addressing topics like mixture design admixtures rheology and fresh state behavior alternative materials microstructure cold joints interfaces mechanical performance reinforcement structural engineering durability and sustainability automation and industrialization

the open access proceedings set lncs 13964 13965 13966 constitutes the refereed proceedings of the 35th international conference on computer aided verification cav 2023 which was held in paris france in july 2023 the 67 full papers presented in these proceedings were carefully reviewed and selected from 261 submissions they have been organized in topical sections as follows part i automata and logic concurrency cyber physical and hybrid systems synthesis part ii decision procedures model checking neural networks and machine learning part iii probabilistic systems security and quantum systems software verification

this book compiles selected publications authored or co authored by the editor to present a comprehensive understanding of following topics 1 density functional theory and calphad modeling 2 computational tools and 3 applications of computational thermodynamics it is noted that while entropy at one scale is well represented by standard statistical mechanics in terms of probability of individual configurations at that scale the theory capable of counting total entropy of a system from different scales is lacking the zentropy theory provides a nested form for configurational entropy enabling multiscale modeling to account for disorder and fluctuations from the electronic scale based on quantum

mechanics to the experimental scale based on statistical mechanics using free energies of individual configurations rather than their total energies in standard statistical mechanics the predictions from the zentropy theory demonstrate remarkable agreements with experimental observations for magnetic transitions and associated emergent behaviors of strongly correlated metals and oxides including singularity and instability at critical points and positive and negative thermal expansions without the need of additional truncated models and fitting model parameters beyond density function theory this paves the way to provide the predicted phase equilibrium data for high throughput predictive calphad modeling of complex material systems and those individual configurations may thus be considered as the genomic building blocks of individual phases in the spirit of materials genome

this book is open access under a cc by licence the lncs 11427 and 11428 proceedings set constitutes the proceedings of the 25th international conference on tools and algorithms for the construction and analysis of systems tacas 2019 which took place in prague czech republic in april 2019 held as part of the european joint conferences on theory and practice of software etaps 2019 the total of 42 full and 8 short tool demo papers presented in these volumes was carefully reviewed and selected from 164 submissions the papers are organized in topical sections as follows part i sat and smt sat solving and theorem proving verification and analysis model checking tool demo and machine learning part ii concurrent and distributed systems monitoring and runtime verification hybrid and stochastic systems synthesis symbolic verification and safety and fault tolerant systems

daq and data processing is a basic part of all automated production systems diagnostic systems watching over quality of production energy distribution transport control or in various other areas demands on the speed accuracy and reliability increase in general it is possible to achieve not only using superior but also more expensive hardware but also applying advanced data acquisition and intelligent data processing it deals e g optimal data fusion of a number of sensors new stochastic methods for accuracy increasing new algorithms for acceleration of data processing etc these are the grounds for publishing this book advanced data acquisition and intelligent data processing offers 10 up to date examples of different applications of advanced data acquisition and intelligent data processing used in monitoring measuring and diagnostics systems the book arose based on the most interesting papers from this area published at idaacs 2013 conference however the individual chapters include not only designed solution in wider context but also relevant theoretical parts achieved results and possible future ways technical topics discussed in this book include advanced methods of data acquisition in application that are not routine measured data fusion using up to date advanced data processing nonlinear dynamical systems identification multidimensional image processing advanced data acquisition and intelligent data processing is ideal for personnel of firms deals with advanced instrumentation energy consumption monitoring environment monitoring non destructive diagnostics robotics etc as well as academic staff and postgraduate students in electrical control and computer engineering content 1 introduction 2 waveform acquisition with resolutions exceeding those of the adc employed 3 different disaggregation algorithms in non intrusive home energy monitoring systems 4 design and testing of an electronic nose system sensitive to the aroma of truffles 5 daq system for ultrasonic transducer evaluation under spread spectrum excitation 6 optimal data fusion in decentralized stochastic unknown input observers 7 odor classification by neural networks 8 anfis based approach for improved multisensors signal processing 9 neuro fuzzy sensor s linearization based fpga 10 interpolation method of nonlinear dynamical systems identification based on volterra model in frequency domain 11 training cellular automata for hyperspectral image segmentation

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the lloyd s register of shipping records the details of merchant vessels over 100 gross tonnes which are self propelled and sea going regardless of classification before the time only those vessels classed by lloyd s register were listed vessels are listed alphabetically by their current name

the complexity of modern embedded systems has increased rapidly in the recent past introducing models of computation into the design flow has significantly raised the abstraction in system level design of embedded systems establishing such high abstraction levels in common hardware software co design flows is still in its infancy h gregor molter develops a hardware software co design flow based on the discrete event system specification model of computation he advocates that such a system level design flow should exploit a timed model of computation to allow a broad application field the presented design flow will transform timed devs models to both synthesizable vhdl source code and embeddable c source code

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