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Nistir 7897 2014-10-09 this guide describes how to use the step file analyzer a software tool that generates a spreadsheet from a step iso 10303 informally known as the standard for exchange of product model data 1 2 3 file the spreadsheets simplify inspecting information from the step file at an entity and attribute level in this report a step file refers to a file that is exported by cad computer aided design software in a format described by iso 10303 21 4 and typically known as a part 21 file

User manual - hand-held analyzer types 2250 and 2270 2016 this book was first published in 2015 since then the wi fi technology has evolved tremendously this 2020 edition has important updates about security once hackers take control of your wi fi router they can attack connected devices such as phones laptops computers fortunately it is easy to harden the defense of your home network there are important steps you should take in order to protect your connected devices an exhaustive catalog of the latest home security devices has been updated in this 2020 edition why would you spend a lot of money to have a home security system installed when you can do it yourself a chapter about health risks has also been added are emf radiations safe we regularly post updates on our site mediastimulus com such as security alerts and the latest in wi fi technology your feedback is always welcome mediastimulus com contact

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Hand-held Analyzer Types 2250 and 2270 - User Manual 1991 ibm information management system imstm provides leadership in performance reliability and security to help you implement the most strategic and critical enterprise applications ims ims utilities and ims tools continue to evolve to provide value and meet the needs of enterprise customers with ims 12 integration and open access improvements provide flexibility and support business growth requirements scalability improvements have been made to the well known performance efficiency availability and resilience of ims by using 64 bit storage in this ibm redbooks publication we provide ims performance monitoring and tuning information by describing the key ims performance functions and by showing how to monitor and tune them with traditional and new strategic applications this book is for database administrators and system programmers we summarize methods and tools for monitoring and tuning ims systems describe ims system wide performance database and transaction considerations based on lab measurements we provide information about recent performance enhancements that are available with ims 12 and advice about setting performance related parameters

AWS 1993 this book is specifically designed for the user who wishes expanded use of ellipsometry beyond the relatively limited number of turn key applications the book provides a concise discussion of theory and instrumentation before describing how to use optical parameters to determine material properties and optical parameters for inaccessible substrates and unknown films and how to measure extremely thin films the book also addresses polysilicon a material commonly used in the microelectronics industry and the effect of substrate roughness this book s concepts and applications are reinforced through the 14 case studies that illustrate specific applications of ellipsometry from the semiconductor industry as well as studies involving corrosion and oxide growth allows the user to optimize turn key operation of ellipsometers and move beyond limited turn key applications provides comprehensive discussion of the measurement of film thickness and optical constants in film discusses the trajectories of the ellipsometric parameters del and psi and how changes in the materials affect the parameter includes 14 case studies to reinforce specific applications includes three appendices for helpful references

User's Guide to the Contract Laboratory Program 2013-01-08 universal v ray settings this page provides a tutorial on universal settings for v ray that work for most still images overview the universal settings comprise a set of settings that work very well for still images in many situations and are the default for v ray next please note that these settings are not optimal in the sense that with enough tweaking you can probably get similar quality with faster render times the beauty of these settings though is that they require almost no tweaking and you are guaranteed to get a good result in the end the advantages of these settings are o very little parameters for controlling render quality vs speed o works for a

very large number of scenes o produces high quality results with the progressive image sampler the default render time min is set to 1 0 which might be insufficient for some scenes you can reset this to 0 0 min and rendering will continue until the noise threshold is reached setting the v ray renderer 1 set v ray as the current rendering engine with the default v ray settings 2 the default settings are optimized to work universally so it is recommended to keep them progressive image sampler with 100 max subdivs and 1 min subdivs gi enabled using brute force as primary gi engine and light cache as secondary gi engine 3 you can further refine the noise levels from the progressive image sampler rollout by adjusting the noise threshold and placing a 0 value for the render time min 4 you can control the amount of aa vs shading samples for materials lights gi using the min shading rate parameter in the image sampler rollout but the default value is optimised to work well for the majority of scenes

CONVEX Mini Manual 1988 essbase is everywhere these days to survive and be productive in the business world you need to take control of essbase if you don t have time and money in the budget to go to a class if you just want to learn at your own pace or if you want the information not covered in classes this book will show you the way whether you re an end user looking to better analyze information or an admin building new applications you will become a master of essbase as your fellow workers look at you in sheer dumbstruck awe you will learn how to use the excel add in and smart view add in to retrieve and analyze data create dynamic reports that change as new data is uploaded build different types of applications quickly and easily following the proven steps provided in this guide use advanced techniques such as tuning and optimization calc scripts and maxl

IMS 12 Selected Performance Topics 1994 do you want to design a wireless transmitter or receiver for hand held telephones have you wondered why the printed circuit wires on high frequency circuits don t always run in a straight line this valuable text will answer all of your questions regarding component parasitics and circuit characterization for rf microwave amplifier oscillator and filter circuit design and analysis you will understand why capacitors act as inductors and vice versa and why amplifiers work like oscillators while oscillators for local area networks work more like local area heaters application of the information in introduction to microwave circuits will reduce design cycle time and costs markedly increasing the probability of first time success in printed circuit or monolithic microwave integrated circuit mmic design several approaches are taken into consideration such as the effects of currents on the ground plane bypass and coupling capacitors and nonlinear effects in linear circuits featured topics include incorporation of component parasitics in the design cycle closed form solution to oscillator design odd mode stability analysis pin diode analysis for high power switching applications an integrated design example of a 1 25 ghz amplifier oscillator and filter printed circuit is also included which could be useful in printed circuit board designs from tens of megahertz to tens of gigahertz introduction to microwave circuits provides the tools necessary to analyze or synthesize microwave circuits this text is an essential reference for undergraduate students microwave engineers and administrators also it will assist experienced designers in other fields to meet the current rapid expansion of communication system applications and work effectively in microwave circuit design about the author robert j weber began his prolific career in the solid state research laboratory at the collins radio company later a part of rockwell international for 25 years he worked on advanced development and applied research in the one to ten gigahertz frequency range and received several distinguished awards for his valuable contributions to the field dr weber is involved in ongoing experimental research in integrating microwave circuits with other devices such as mems chemical sensors and electro optics also he teaches microwave circuit design and fiber optics communications at the department of electrical and computer engineering iowa state university dr weber is an ieee fellow sponsored by ieee microwave theory and techniques society

DB2 1978 the field of forensic dna analysis has grown immensely in the past two decades and genotyping of biological samples is now routinely performed in human identification hid laboratories application areas include paternity testing forensic casework family lineage studies identification of human remains and dna databasing forensic dna analysis current practices and emerging technologies explores the fundamental principles and the application of technologies for each aspect of forensic dna analysis the book begins by discussing the value of dna evidence and how to properly recognize document collect and store it the remaining chapters examine the most widely adopted methods and the best practices for dna isolation from forensic biological samples and human remains studies carried out on the use of both messenger rna and small micro rna profiling real time polymerase chain reaction pcr methods for quantification and assessment of human dna prior to genotyping capillary electrophoresis ce as a tool for forensic dna analysis next generation short tandem repeat str genotyping kits for forensic applications the biological nature of str loci and y chromosome strs y strs mitochondrial dna mtdna sequence analysis single nucleotide polymorphisms snps and insertion deletion polymorphisms indels in typing highly degraded dna deep sequencing technologies the current state of integrated systems in forensic dna analysis the book concludes by discussing various aspects of sample processing training and the entities that provide such training programs this volume is an essential resource for students researchers teaching faculties and other professionals interested in human identification forensic dna analysis

Laboratory protocols: CIMMYT Applied molecular genetics laboratory 2012-12-02 this book presents essential perspectives on digital convolutions in wireless communications systems

and illustrates their corresponding efficient real time field programmable gate array fpga implementations fpgas or generic all programmable devices will soon become widespread serving as the brains of all types of real time smart signal processing systems like smart networks smart homes and smart cities the book examines digital convolution by bringing together the following main elements the fundamental theory behind the mathematical formulae together with corresponding physical phenomena virtualized algorithm simulation together with benchmark real time fpga implementations and detailed state of the art case studies on wireless applications including popular linear convolution in digital front ends dfe nonlinear convolution in digital pre distortion dpd enabled high efficiency wireless rf transceivers and fast linear convolution in massive multiple input multiple output mimo systems after reading this book students and professionals will be able to understand digital convolution with inside out information discover what convolution is why it is important and how it works enhance their fpga design skills i.e. enhance their fpga related prototyping capability with model based hands on examples rapidly expand their digital signal processing dsp blocks to examine how to rapidly and efficiently create dsp functional blocks on a programmable fpga chip as a reusable intellectual property ip core upgrade their expertise as both thinkers and doers minimize close the gap between mathematical equations and fpga implementations for existing and emerging wireless applications

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A User's Guide to Ellipsometry 2008-03-01 ibm cognos business intelligence bi provides a proven enterprise bi platform with an open data strategy cognos bi provides customers with the ability to use data from any source package it into a business model and make it available to consumers in various interfaces that are tailored to the task ibm cognos dynamic cubes complements the existing cognos bi capabilities and continues the tradition of an open data model it focuses on extending the scalability of the ibm cognos platform to enable speed of thought analytics over terabytes of enterprise data without having to invest in a new data warehouse appliance this capability adds a new level of query intelligence so you can unleash the power of your enterprise data warehouse this ibm redbooks publication addresses ibm cognos business intelligence v10 2 2 and specifically the ibm cognos dynamic cubes capabilities this book can help you in the following ways understand core features of the cognos dynamic cubes capabilities of cognos bi v10 2 learn by example with practical scenarios by using the ibm cognos samples this book uses fictional business scenarios to demonstrate the power and capabilities of ibm cognos dynamic cubes it primarily focuses on the roles of the modeler administrator and its architect

Scientific and Technical Aerospace Reports 2001-01-23 a technique used to amplify the number of copies of a specific region of dna the polymerase chain reaction pcr is at the forefront of the dramatic development of biochemistry this text provides the tools for developing innovative approaches to using this leading technology it includes theoretical considerations discussions and a selection of

Vray 5.0 (NEXT) User Guide 2013-08-19 this book provides an in depth exposition of spin stand microscopy of hard disk data which is a new technique recently developed and extensively tested by the authors of the book spin stand microscopy is the first magnetic imaging technique where imaging is performed ex situ on a rotating disk mounted on a spin stand this technique is one of the fastest scanning based microscopy techniques it is non invasive and has nano scale resolution for these reasons it provides unique capabilities for the visualization of magnetization patterns recorded on hard disks this book is self contained and it covers in sufficient details the basic facts of magnetic data storage technology the principles and theory of spin stand microscopy its experimental implementations as well as its applications in hard disk diagnostics imaging of overwritten patterns computer forensics of hard disk files and data dependent magnetic thermal relaxations of recorded magnetization patterns this book will be a valuable reference for the magnetic data storage community magnetic microscopy professionals as well as engineers and scientists involved in computer data forensics commercial data recovery and the design of archival data storage systems conceptual novelty of the technique and the demonstration of its wide scope of applications detailed exposition of the principles of spin stand magnetic microscopy comprehensive discussions of novel image reconstruction techniques demonstration of high resolution spin stand images of hard disk data presentation of sector by sector ex situ forensics of hard disk files extensive studies of data dependent thermal relaxations of magnetization patterns recorded on hard disks

Look Smarter Than You Are with Hyperion Essbase 1979 this book includes a range of techniques for developing digital signal processing code tips and tricks for optimizing dsp

software and various options available for constructing dsp systems from numerous software components

Introduction to Microwave Circuits 1993 ibm z enterprise data compression zcdc capability and the peripheral component interconnect express pcie or pci express hardware adapter called zcdc express were announced in july 2013 as enhancements to the ibm z/os v2.1 operating system/os and the ibm z enterprise ec12/zec12 and the ibm z enterprise bc12/zbc12 zcdc is optimized for use with large sequential files and uses an industry standard compression library zcdc can help to improve disk usage and optimize cross platform exchange of data with minimal effect on processor usage the first candidate for such compression was the system management facility smf and support for basic sequential access method bsam and queued sequential access method qsam followed in first quarter 2014 ibm software development kit/sdk 7 for z/os java ibm encryption facility for z/os ibm sterling connect direct for z/os and an ibm z/vm guest can also use zcdc express zcdc can also be used for data facility storage management subsystem data set services dfsmsdss dumps and restores and for dfsms hierarchical storage manager dfsmsdsm when using dfsmsdss for data moves this ibm redbooks publication describes how to set up the zcdc functionality to obtain the benefits of portability reduced storage space and reduced processor use for large operational sets of data with the most current ibm system z environment

Forensic DNA Analysis 2017-01-16 summarizing the history and basic concepts of finite elements in a manner easily understood by all engineers this concise reference describes specific finite element software applications to structural thermal electromagnetic and fluid analysis detailing the latest developments in design optimization finite element model building and results processing and future trends requiring no previous knowledge of finite elements analysis the second edition provides new material on p elements iterative solvers design optimization dynamic open boundary finite elements electric circuits coupled to finite elements anisotropic and complex materials electromagnetic eigenvalues and automated pre and post processing software containing more than 120 tables and computer drawn illustrations and including two full colour plates what every engineer should know about finite element analysis should be of use to engineers engineering students and other professionals involved with product design or analysis

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High Temperature Composite Analyzer (HITCAN) User's Manual, Version 1.0 1983 this book constitutes the proceedings of the 6th international symposium on reconfigurable computing architectures tools and applications arc 2010 held in bangkok thailand in march 2010 the 42 papers presented consisting of 26 full and 16 short papers were carefully reviewed and selected from numerous submissions the topics covered are practical applications of the rc technology rc architectures tc design methodologies and tools and rc education FPGA-based Digital Convolution for Wireless Applications 2015-07-31 ibm customer information control system cics explorer is the new face of cics integration point for cics tooling with rich cics views data and methods are you looking for new ways to accelerate the transfer of knowledge skills and best practices to the next generation of technical staff and experts do you need to maintain productivity and protect service levels cics explorer tm and system z lead the way to platform simplification ibm cics explorer has a common intuitive eclipse based environment for architects developers administrators system programmers and operators the task oriented views provide integrated access to a broad range of data and control capabilities and it also has powerful context sensitive resource editors integration point for cics ts cics tools cics tg pd tools and rational tools are extensible by independent software vendors isv system integrators si and customers who use our software development kit in this ibm redbooks publication we focus on the new cics explorer the first part of the book is an overview of the cics explorer along with all of the cics tools plug ins in the second part of the book we focus on several scenarios in which you can use the cics explorer with the cics tools plug ins to resolve various problems

Big Data Analytics with IBM Cognos Dynamic Cubes 2003-11-13 the second edition of the bestselling measurement instrumentation and sensors handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes organized according to measurement problem the electromagnetic optical radiation chemical and biomedical measurement volume of the second edition contains contributions from field experts new chapters and updates to all 98 existing chapters covers sensors and

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Energy Research Abstracts 1996 this volume presents a selection of new methods and approaches in the field of exploratory data analysis the reader will find numerous ideas and examples for cross disciplinary applications of classification and data analysis methods in fields such as data and web mining medicine and biological sciences as well as marketing finance and management sciences

IBM Cognos Dynamic Cubes 2010-07-07 electrophoresis is defined as the transport of electrically charged particles in a direct current electric field electrophoresis has been around for more than a century as a phenomenon in electrokinetics field effect electroosmosis is a novel phenomenon in electrokinetics that adds a new dimension in capillary electrophoresis in this book field effect electroosmosis is introduced and a beautiful spectrum of applications of electrophoresis was presented

PCR Technology 1993 the second edition of the bestselling measurement instrumentation and sensors handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes organized according to measurement problem the electromagnetic optical radiation chemical and biomedical measurement volume of the second edition contains contributions from field experts new chapters and updates to all 98 existing chapters covers sensors and sensor technology time and frequency signal processing displays and recorders and optical medical biomedical health environmental electrical electromagnetic and chemical variables a concise and useful reference for engineers scientists academic faculty students designers managers and industry professionals involved in instrumentation and measurement research and development measurement instrumentation and sensors handbook second edition electromagnetic optical radiation chemical and biomedical measurement provides readers with a greater understanding of advanced applications

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