

Hints, Tips and Solutions

Mustafa Taner, Applications and Support Engineer

Q. How can I extract BSIM4 parameters using *UTMOST III*?

A. The BSIM4_FI routine in *UTMOST III* MOS module should be used for data collection and BSIM4 SPICE model parameter extraction. The BSIM4_FI routine features are similar to the BSIM3_MG routine. The BSIM4_FI routine will collect four types of measured data curves from each device:

- 1) IDS/VGS @ low VDS bias.
- 2) IDS/VDS @ VBS=0V.
- 3) IDS/VGS @ High VDS bias.
- 4) IDS/VDS @ High VBS bias.

After the data collection is completed the menu item "Measure&extract" in the Fit Variables screen should be set to "1". This will enable the automatic parameter extraction and refinement process. (Figure 1.)

If the "Measure&extract" flag is set to "1" the extraction will start after the measurement is completed or after

FIT VARIABLES		
FITTING VARIABLES		
1	Measure&extract	1
2	Extract_ID	1
3	Extract_IDV	0
4	Extract_IDL	0
5	Extract_IDSD	0
6	Extract_NCH	0
7	Extract_XJ	0
8	DELCHDD(0-2)	0
9	VDS_Low_VDS	-4
10	VDS_high_VDS	4
11	VDS_Low_VBS	-4
12	VDS_high_VBS	4

QUIT

Figure 1. BSIM4_FI routine "Fitting Variables" screen.

LOCAL OPTIMIZATION SCREEN					
Strategy # 51		idvg_large_bsim4		BSIM4_FI	
1	VTNB	IS	IS	IS	IS
2	IS	IS	IS	IS	IS
3	IS	IS	IS	IS	IS
4	IS	IS	IS	IS	IS

Define Strategy Select Strategy Define Plotlist PRINT QUIT

Plot File: [path to file]

Figure 2. Local Optimization Strategy#51 : idvg_large_bsim4

loading the log file and pressing the "Measure" button will start the extraction. The BSIM4_FI routine is very easy to use and the routine will extract and refine BSIM4 parameters with user inputting only few process related parameters (TOX, XJ, NCH) in to the fit and opt columns of the parameters screen. The extracted parameters will be copied into the parameters screen.

The BSIM4_FI routine is an automatic parameter extraction and refinement routine. The simulation and local/Global optimization should be performed using the ALL_DC routines. The measured data collected with BSIM4_FI routine can be shared by any ALL_DC routine.

After the parameter extraction is completed the quality of the fits should be examined by running the SPICE simulation against the measured data in ALL_DC routine. The further fine tuning of the parameters can be achieved by using the Local optimization strategies. The local optimization strategies between Strategy#51 and Strategy#60 are developed by Silvaco specifically for the BSIM4 model parameter optimization. (Figure 2.)

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Cmos Rf Modeling, Characterization And Applications M Jamal Deen, Tor A Fjeldly, 2002-04-10 CMOS technology has now reached a state of evolution in terms of both frequency and noise where it is becoming a serious contender for radio frequency RF applications in the GHz range Cutoff frequencies of about 50 GHz have been reported for 0.18 μ m CMOS technology and are expected to reach about 100 GHz when the feature size shrinks to 100 nm within a few years This translates into CMOS circuit operating frequencies well into the GHz range which covers the frequency range of many of today's popular wireless products such as cell phones GPS Global Positioning System and Bluetooth Of course the great interest in RF CMOS comes from the obvious advantages of CMOS technology in terms of production cost high level integration and the ability to combine digital analog and RF circuits on the same chip This book discusses many of the challenges facing the CMOS RF circuit designer in terms of device modeling and characterization which are crucial issues in circuit simulation and design

Sniper and Counter Sniper Tactics - The Official U.S. Army Manual U.S. Department of Defense, 2023-12-29 Sniper and Counter Sniper Tactics The Official U S Army Manual serves as a comprehensive and authoritative manual that delves into the intricacies of precision marksmanship and counter sniper operations within contemporary military contexts Written in a pragmatic and accessible style the manual is meticulously structured to guide strategists and operatives alike It encompasses theoretical concepts alongside practical applications blending technical terminology with operational scenarios that reflect real world engagements This text is an essential resource for understanding the evolving dynamics of asymmetric warfare where snipers play a pivotal role in military strategy and tactical execution Authored by the U S Department of Defense this manual emerges from a rich tradition of military doctrine that emphasizes rigorous training and disciplined execution The authors comprising military strategists and seasoned veterans draw upon extensive field experience to craft guidelines that not only inform but also reflect contemporary tactical realities and challenges faced by military personnel Their collective expertise resonates throughout the work establishing it as a critical tool for both current forces and future strategists I highly recommend this manual to military professionals historians and enthusiasts of tactical warfare Its detailed analysis and specific instructions provide invaluable insights into sniper operations making it an essential addition to any serious military library Whether you are a practitioner seeking to refine skills or a scholar researching military tactics this book offers a cornerstone of knowledge grounded in reliable military doctrine

Swarm, Evolutionary, and Memetic Computing Bijaya Ketan Panigrahi, Swagatam Das, Ponnuthurai Nagarathnam Suganthan, Pradipta Kumar Nanda, 2012-12-16 This book constitutes the refereed proceedings of the Third International Conference on Swarm Evolutionary and Memetic Computing SEMCCO 2012 held in Bhubaneswar India in December 2012 The 96 revised full papers presented were carefully reviewed and selected from 310 initial submissions The papers cover a wide range of topics in swarm evolutionary memetic and other intelligent computing algorithms and their real

world applications in problems selected from diverse domains of science and engineering *Computer Aided Design Of Micro- And Nanoelectronic Devices* Chinmay Kumar Maiti,2016-10-27 Micro and nanoelectronic devices are the prime movers for electronics which is essential for the current information age This unique monograph identifies the key stages of advanced device design and integration in semiconductor manufacturing It brings into one resource a comprehensive device design using simulation The book presents state of the art semiconductor device design using the latest TCAD tools Professionals researchers academics and graduate students in electrical electronic engineering and microelectronics will benefit from this reference text IEICE Transactions on Electronics ,1999 **Extraction Metallurgy** Swamini Chopra,Thoguluva Vijayaram,2024-01-10 Extraction Metallurgy New Perspectives explores the dynamic world of metallurgical processes and materials extraction This volume offers fresh insight into the latest and cutting edge research that will help both new learners and seasoned professionals Authored by distinguished metallurgists and researchers this book sheds light on the intricacies of metallurgical processes and their real world applications innovative approaches and methodologies that are reshaping the metallurgical landscape and global perspectives on extraction metallurgy presenting diverse case studies and examples from across the world Written with the needs of researchers and non native English speakers in mind the book employs clear and concise language making complex topics accessible to a wide audience Extraction Metallurgy New Perspectives is a must read for students academics and professionals engaged in metallurgical research and industrial applications **Springer Handbook of Marine Biotechnology** Se-Kwon Kim,2015-01-21 This Springer Handbook provides for the first time a complete and consistent overview over the methods applications and products in the field of marine biotechnology A large portion of the surface of the earth ca 70% is covered by the oceans More than 80% of the living organisms on the earth are found in aquatic ecosystems The aquatic systems thus constitute a rich reservoir for various chemical materials and bio chemical processes Edited by a renowned expert with a longstanding experience and including over 60 contributions from leading international scientists the Springer Handbook of Marine Biotechnology is a major authoritative desk reference for everyone interested or working in the field of marine biotechnology and bioprocessing from undergraduate and graduate students over scientists and teachers to professionals Marine biotechnology is concerned with the study of biochemical materials and processes from marine sources that play a vital role in the isolation of novel drugs and to bring them to industrial and pharmaceutical development Today a multitude of bioprocess techniques is employed to isolate and produce marine natural compounds novel biomaterials or proteins and enzymes from marine organisms and to bring them to applications as pharmaceuticals cosmeceuticals or nutraceuticals or for the production of bioenergy from marine sources All these topics are addressed by the Springer Handbook of Marine Biotechnology The book is divided into ten parts Each part is consistently organized so that the handbook provides a sound introduction to marine biotechnology from historical backgrounds and the fundamentals over the description of the methods

and technology to their applications but it can also be used as a reference work Key topics include Marine flora and fauna Tools and methods in marine biotechnology Marine genomics Marine microbiology Bioenergy and biofuels Marine bioproducts in industrial applications Marine bioproducts in medical and pharmaceutical applications and many more

The Cyanide Process of Gold Extraction James Park,1904 **The Brazilian Amazonia in Change II** Gerd Kohlhepp,2025-02-08 In the Brazilian planning region Amazonia Legal deforestation of rain forests for the extraction of mineral resources cattle breeding soybean farming transport infrastructure and hydropower plants was carried out without regard for the indigenous people and regional socio ecological vulnerability The implementation of damaging mega programmes caused disastrous environmental problems Large scale destruction of biodiversity rising temperatures and instability of precipitation not only pose a threat to the region but also have global impacts on climate change Over the last two decades parts of Amazonia Legal have evolved from a CO₂ sink to a source of CO₂ emissions *Utech Asia'97* ,1997

Dried Blood Spots Wenkui Li,Mike S. Lee,2014-05-21 An informative and comprehensive book on the applications and techniques of dried blood spot sampling Dried blood spot DBS sampling involves the collection of a small volume of blood via a simple prick or other means from a study subject onto a cellulose or polymer paper card which is followed by drying and transfer to the laboratory for analysis For many years this method of blood sample collection has been extensively utilized in some important areas of human healthcare for example newborn screening for inherited metabolic disorders and HIV related epidemiological studies Because of its advantages over conventional blood plasma or serum sample collection DBS sampling has been valued by the pharmaceutical industry in drug research and development *Dried Blood Spots Applications and Techniques* features contributions from an international team of leading scientists in the field Their contributions present a unique resource on the history principles procedures methodologies applications and emerging technologies related to DBS Presented in three parts the book thoroughly examines Applications of DBS sampling and associated procedures and methodologies in various human healthcare studies Applications and perspectives of DBS sampling in drug research and development and therapeutic drug monitoring New technologies and emerging applications related to DBS sampling and analysis *Dried Blood Spots Applications and Techniques* is a valuable working guide for researchers professionals and students in healthcare medical science diagnostics clinical chemistry and pharmaceuticals etc **Patient Centric Blood**

Sampling and Quantitative Analysis Neil Spooner,Emily Ehrenfeld,Joe Siple,Mike S. Lee,2023-10-31 **PATIENT CENTRIC BLOOD SAMPLING AND QUANTITATIVE ANALYSIS** Authoritative resource providing a complete overview of patient centric blood sampling as well as its benefits and challenges Patient Centric Blood Sampling and Quantitative Analysis focuses on the growing interest in alternative means to standard phlebotomy and analytical workflows for the collection and analysis of high quality human biological samples for the quantitative determination of circulating drugs their metabolites and endogenous substances for clinical trials routine healthcare and neonatal screening The book clearly explains the benefits

and constraints of having patients collect small volumes of blood in locations outside of a clinic e.g. at home including patient convenience less invasive procedures increased frequency of sampling applicability to collecting samples from the young elderly and those in remote locations greater frequency and lower cost per sample Readers will learn about approaches for successfully implementing patient centric sampling workflows in a number of scenarios including the clinical setting and in the analytical laboratory Edited by four recognized experts in this field with additional specialists in the discipline enlisted to write the component chapters enabling greater depth and detail to be added and further raising the scientific standing of the publication Patient Centric Blood Sampling and Quantitative Analysis includes information on Basics of patient centric blood sampling and techniques and approaches that are available and in development for the collection and analysis of the samples Science behind patient centric blood sampling and its implications regarding human healthcare and wellbeing Application areas of patient centric sampling including drug development clinical chemistry pathology therapeutic drug monitoring and more Practical approaches to successful implementation for existing and developing purposes and workflows and case studies to support implementation within an organization Giving the reader a broad understanding of what patient centric sampling is and where it might be applied for existing and potential future areas Patient Centric Blood Sampling and Quantitative Analysis is an essential resource on the subject for many different types of laboratories areas of clinical research and healthcare including those in pharmaceutical clinical and research functions

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address topics on larger integrated electronic assemblies and smaller semiconductor materials and devices size levels Air Force Manual United States. Department of the Air Force,1967 *Manual of plane trigonometry. ... Fourth edition* Joseph A. Galbraith,1857 **Digital Forensics and Cybercrime Investigation** Mr. Rohit Manglik,2024-01-16 EduGorilla Publication is a trusted name in the education sector committed to empowering learners with high quality study materials and resources Specializing in competitive exams and academic support EduGorilla provides comprehensive and well structured content tailored to meet the needs of students across various streams and levels *A Guide to Forensic DNA Profiling* Scott Bader,2016-03-08 A Guide to Forensic DNA Profiling A Guide to Forensic DNA Profiling The increasingly arcane world of DNA profiling demands that those requiring to understand at least some of it must find a source of reliable and understandable information Combining material from the successful Wiley Encyclopedia of Forensic Science with newly commissioned and updated material the Editors have used their own extensive experience in criminal casework across the world to compile an informative guide that will provide knowledge and thought provoking articles of interest to anyone involved or interested in the use of DNA in the forensic context Following extensive introductory chapters covering forensic DNA profiling and forensic genetics this comprehensive volume presents a substantial breadth of material covering Fundamental material including sources of DNA validation and accreditation Analysis and interpretation including extraction quantification amplification and interpretation of electropherograms epgs Evaluation including mixtures low template and transfer Applications databases paternity and kinship mitochondrial DNA wildlife DNA single nucleotide polymorphism phenotyping and familial searching Court report writing discovery cross examination and current controversies With contributions from leading experts across the whole gamut of forensic science this volume is intended to be authoritative but not authoritarian informative but comprehensible and comprehensive but concise It will prove to be a valuable addition and a useful resource for scientists lawyers teachers criminologists and judges **Handbook of Nuclear Medicine and Molecular Imaging for Physicists** Michael Ljungberg,2022-03-22 This state of the art handbook the third and final in a series that provides medical physicists with a comprehensive overview into the field of nuclear medicine focuses on highlighting the production and application of radiopharmaceuticals With this the book also describes the chemical composition of these compounds as well as some of the main clinical applications where radiopharmaceuticals may be used Following an introduction to the field of radiopharmacy three chapters in this book are dedicated towards in depth descriptions of common radionuclides and radiopharmaceuticals used during diagnostic studies utilizing planar Single Photon Emission Computed Tomography SPECT imaging in addition to during Positron Emission Tomography PET imaging and finally radiotherapy These chapters are followed by those describing procedures relating to quality control and manufacturing good manufacturing practices also encompassing aspects such as environmental compliance Furthermore this volume illustrates how facilities handling these chemicals should be designed to comply with set regulations Like many

pharmaceuticals the development of radiopharmaceuticals relies heavily on the use of mouse models Thus the translation of radiopharmaceuticals i e the process undertaken to assure that the functionality and safety of a newly developed drug is maintained also in a human context is covered in a later chapter This is followed by a chapter emphasising the importance of safe waste disposal and how to assure that these procedures meet the requirements set for the disposal of hazardous waste Several chapters have also been dedicated towards describing various medical procedures utilizing clinical nuclear medicine as a tool for diagnostics and therapeutics As physicists may be involved in clinical trials a chapter describing the procedures and regulations associated with these types of studies is included This is followed by a chapter focusing on patient safety and another on an imaging modality not based on ionizing radiation ultrasound Finally the last chapter of this book discusses future perspectives of the field of nuclear medicine This text will be an invaluable resource for libraries institutions and clinical and academic medical physicists searching for a complete account of what defines nuclear medicine The most comprehensive reference available providing a state of the art overview of the field of nuclear medicine Edited by a leader in the field with contributions from a team of experienced medical physicists chemists engineers scientists and clinical medical personnel Includes the latest practical research in the field in addition to explaining fundamental theory and the field s history *Boston Medical and Surgical Journal* ,1893

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