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*TCAD Sentaurus  
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To run Inspect  
and Tecplot SV  
from Sentaurus  
Workbench,*

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*outside of any  
project:*

*Extensions > Run  
Inspect.*

*Extensions > Run  
Tecplot SV. 5.6  
Running*

*Optimizer. To  
run an Optimizer  
project from  
Sentaurus*

*Workbench:*

*Optimization >  
Run. For more*



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*details about  
Optimizer and  
optimization  
procedures,  
refer to the  
Optimizer User  
Guide. 5.7  
Calibration*

*Sentaurus Device  
- Synopsys  
"Our Sentaurus  
TCAD tools offer  
many*

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*capabilities to simulate solar cell operation and performance characteristics to guide design improvements.*

*Having NREL as a user of our tools enables us to better understand the challenges and new directions*

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*of the fast-  
changing  
photovoltaic  
field."*

*Sentaurus™  
Device User  
Guide  
Sentaurus  
Workbench  
provides several  
capabilities to  
use third-party  
software with*

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*TCAD Sentaurus tools. It is possible to introduce a new tool using the MY TOOL tool instance and to customize its input in the user or project tooldb file.*

*ece.gmu.edu  
Global TCAD*

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*Solutions offers an industry proven multi-purpose TCAD framework including classical and quantum mechanical device simulation. They have been founded as a spin-off company*

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*of the Vienna  
University of  
Technology with  
the mission to  
close the gap  
between cutting-  
edge scientific  
developments and  
industrial needs  
in device  
engineering.*

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*About This Guide*

*The Synopsys*

*Sentaurus™*

*Workbench tool  
is the primary  
graphical front  
end for the  
integration of  
TCAD Sentaurus  
simulation  
software into  
one environment.*

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**Sentaurus**

*Workbench is a software package that provides a convenient framework to design, organize, and automatically run complete TCAD simulation projects.*

**Sentaurus®** 



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*Workbench User  
Guide -*

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*Chapter 1:*

*Introduction.*

*This manual is intended for the first time user of SILVACO TCAD products. Its intention is to enable a new user to have the software up and*

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*running within a  
few minutes of  
successful  
installation.*

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entaurusTCADv1Us  
erManual, March2  
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Tutorial -  
Stanford  
University  
Sentaurus Device  
is a general  
purpose device  
simulation tool  
which offers  
simulation  
capability in*

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*the following  
broad  
categories:  
Advanced Logic  
Technologies  
Sentaurus Device  
simulates  
advanced logic  
technologies  
such as FinFET  
and FDSOI,  
including stress  
engineering,  
channel*

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*quantization  
effects, hot  
carrier effects  
and ballistic  
transport and  
many other  
advanced  
transport  
phenomena.*

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**STRUCTURE EDITOR**

**CONTENTS iii**

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**manual.....xvii**

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**software and**

**documentation**



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*Chapter 1:  
Introduction.*

*This manual is  
intended for the*

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*first time user  
of SILVACO TCAD  
products. Its  
intention is to  
enable a new  
user to have the  
software up and  
running within a  
few minutes of  
successful  
installation.*

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to Using TCAD**

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ciency\$Simulator*

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*\$for*

*Sentaurus\$TCAD\$\$*

*User ...*

*Sentaurus Visual*

*is a plotting*

*tool for*

*visualizing data*

*from TCAD*

*simulations and*

*experiments. Its*

*user interface*

*enables users to*

*work*

*interactively*

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*with data and to  
automate tasks  
with Tcl-based  
scripting.*

*Module Time: 2  
hours and 15  
minutes*

*TCAD Sentaurus  
Tutorial -  
Stanford  
University  
Sentaurus TCAD I  
ndustry-Standard*

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*Process and  
Device  
Simulators  
Overview*

*Sentaurus is a  
suite of TCAD  
tools which  
simulates the  
fabrication,  
operation and  
reliability of  
semiconductor  
devices. The  
Sentaurus*



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*simulators use  
physical models  
to represent the  
wafer  
fabrication  
steps and device  
operation,  
thereby allowing  
the exploration  
and*

**Software – TCAD  
Central  
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*Computer Aided  
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Lecture 3,  
Overview of  
Synopsys  
Sentaurus TCAD  
... - Tool= one  
of the Sentaurus  
TCAD tools ...  
checks): always  
refer to the  
user guide  
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This Guide xli  
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