

Tutorial List

Altair[®] PSIM[™]

Tutorial List

Tutorial Name	Link
Help Embedded Software Block	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Help Embedded Software Block.pdf
AC Analysis of Switchmode Circuits in SPICE Simulation	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - AC Analysis of Switchmode Circuits in SPICE Simulation.pdf
Control Loop Design Using Script Functions	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Control loop design using Script functions.pdf
Debugging DLL	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Debugging DLL.pdf
Diode Model with Reverse Recovery	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Diode model with reverse recovery.pdf
Electric Machine Modeling	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Electric Machine Modeling.pdf
EMI Analysis and Filter Design Using EMI Design Suite	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - EMI analysis and filter design using EMI Design Suite.pdf
How to Use General DLL Block	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - How to Use General DLL Block.pdf
HEV Design Suite	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - HEV Design Suite.pdf
How to Use LuTs-Based PMSM (Flux and FluxMotor) Models and Generate Efficiency Maps	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - How to Use LuTs-Based PMSM (Flux and FluxMotor) Models and Generate Efficiency Maps.pdf
How to Use JMAG-RT Models	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - How to Use JMAG-RT Models.pdf
How to Use PMSM (Flux and FluxMotor) Models	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - How to Use PMSM (Flux and FluxMotor) Models.pdf

How to Generate LuTs for PMSM (Flux and FluxMotor) Models	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - How to Generate LuTs for PMSM (Flux and FluxMotor) Models.pdf
How to Use Script Functions	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - How to Use Script Functions.pdf
How to Use the FMI Module	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - How to Use the FMI Module.pdf
How to Use the PSIM-Embed Wrapper Link	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - How to Use PSIM-Embed Wrapper Link.pdf
How to Use the SPICE Module	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - How to Use the SPICE Module.pdf
IGBT Level-2 model	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - IGBT Level-2 model.pdf
Implementation and Design of PLL and Enhanced PLL Blocks	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Implementation and Design of PLL and Enhanced PLL Blocks.pdf
Induction Motor and PMSM Models with High-Frequency Effect	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Induction Motor and PMSM Models with High-Frequency Effect.pdf
Level-2 Wide Band Gap MOSFET Model Calibrations of dv-dt and di-dt for EMI Study	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Level-2 Wide Band Gap MOSFET Model Calibrations of dv-dt and di-dt for EMI Study.pdf
Level-2 Si MOSFET Model Calibrations of dv-dt and di-dt for EMI Study	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Level-2 Si MOSFET Model Calibrations of dv-dt and di-dt for EMI Study.pdf
Level-3 Superjunction MOSFET Model Calibrations of dv-dt and di-dt for EMI Study	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Level-3 Superjunction MOSFET Model Calibrations of dv-dt and di-dt for EMI Study.pdf
Lithium-Ion Battery Model	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Lithium-Ion Battery Model.pdf

Loss Calculation and Transient Analysis of SiC and GaN Devices	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Loss Calculation and Transient Analysis of SiC and GaN Devices.pdf
Motor Control Design Suite	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Motor Control Design Suite.pdf
Design of DC-DC Power Converters with Peak Current Mode Control Using Power Supply Design Suite	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Design of DC-DC Power Converters with Peak Current Mode Control using Power Supply Design Suite.pdf
Resonant LLC Converter Design Using Power Supply Design Suite	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Resonant LLC Converter Design Using Power Supply Design Suite.pdf
SimCoupler Module	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - SimCoupler Module.pdf
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How to Use the PSIM-HyperSpice Link	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - How to Use PSIM-HyperSpice Link.pdf
Auto Code Generation for F2803x Target	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Auto Code Generation for F2803x Target.pdf
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Implementing CAN Bus Communication in PSIM	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Implementing CAN Bus Communication in PSIM.pdf
Using SCI for Waveform Monitoring	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Using SCI for Waveform Monitoring.pdf

Using SPI in DSP Hardware Targets	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Using SPI in DSP Hardware Targets.pdf
Motor Parameter Identification with PSIM	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Motor Parameter Identification with PSIM.pdf
PMSM Drive with Sensorless Control	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - PMSM Drive with Sensorless Control.pdf
Simulation and Code Generation of TI InstaSPIN Using DRV8305 EVM	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Simulation and Code Generation of TI InstaSPIN Using DRV8305 EVM.pdf
Simulation and Code Generation of TI InstaSPIN Using DRV8312 EVM	https://2023.help.altair.com/psim-tut/tutorials/Tutorial - Simulation and Code Generation of TI InstaSPIN Using DRV8312 EVM.pdf
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AN001-Control Design of 100-kW PMSM Drive	https://2023.help.altair.com/psim-tut/tutorials/AN001-Control Design of 100-kW PMSM Drive.pdf
AN002-Efficiency Map of 100-kW PMSM Drive	https://2023.help.altair.com/psim-tut/tutorials/AN002-Efficiency Map of 100-kW PMSM Drive.pdf
AN003-Design of Resonant LLC Converter for 3.3-kW On-Board EV Charger	https://2023.help.altair.com/psim-tut/tutorials/AN003-Design of Resonant LLC Converter for 3.3-kW On-Board EV Charger.pdf
AN004-Design of 20-kW Resonant LLC Converter for DC-DC Power Supply	https://2023.help.altair.com/psim-tut/tutorials/AN004-Design of 20-kW Resonant LLC Converter for DC-DC Power Supply.pdf
AN005-Design and DSP Implementation of 3.3-kW Resonant LLC On-Board Charger	https://2023.help.altair.com/psim-tut/tutorials/AN005-Design and DSP Implementation of 3.3-kW Resonant LLC On-Board Charger.pdf

AN006-AC Analysis of Peak Current Mode Controlled Buck Converter	https://2023.help.altair.com/psim-tut/tutorials/AN006-AC Analysis of Peak Current Mode Controlled Buck Converter.pdf
AN007-Power Loss and Efficiency Calculation of Resonant LLC Converter	https://2023.help.altair.com/psim-tut/tutorials/AN007-Power Loss and Efficiency Calculation of Resonant LLC Converter.pdf
AN008-Monte Carlo, Sensitivity, and Fault Analysis of Resonant LLC Converter	https://2023.help.altair.com/psim-tut/tutorials/AN008-Monte Carlo, Sensitivity, and Fault Analysis of Resonant LLC Converter.pdf