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Parasitic Extraction
Equivalent Circuit
Model Creation.

Automatically creates
models for circuit
simulation. Extracts
signal and power
ground... Power
Converter Design.
Optimizes
inverter/converter
architectures and
minimizes bus
inductance,
overvoltage ...

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**Extractor: High-
Performance**

Parasitic Extraction

Resource Library

ANSYS Q3D Extractor -
Brochure Q3D

Extractor efficiently
performs 3-D and 2-D
electromagnetic field
simulation of electronic
structures based on
mechanical or
electrical (layout) CAD
data. You then simply
assign material

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properties, sinks and sources to the imported data and perform a simulation of the model.

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Extractor - Brochure

Ansys Q3D Extractor contains an advanced quasi-static 3D electromagnetic field solver based on the method of moments (MoM) and accelerated by the fast multipole method (FMM). The

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results provided by this solver include proximity and skin effect, dielectric and ohmic loss, and frequency dependencies. Q3D Extractor easily and quickly provides 3D extraction of resistance (R), partial inductance (L), capacitance (C) and conductance (G).

**ANSYS Q3D
Extractor: Fast 3D
Parasitic Extraction |**

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electromagnetic field simulations required for the extraction of resistance, inductance, capacitance and conductance. Partial inductance and resistance are often extracted when designing power electronic converters, transformers and bus bars. Ansys Q3D

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1 Double-click the Q3D Extractor icon on your desktop to launch Q3D Extractor. A new project is listed in the project tree in the Project Manager window and is named Project1 by default. Proj- ect

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definitions, such as material assignments, are stored under the project name. 2 Click File>Save As.

Getting Started with Q3D Extractor

Ansys Q3D Extractor software is the premier 3-D and 2-D parasitic extraction tool for engineers designing electronic packaging and power electronic equipment. Q3D Extractor uses method

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of moments (integral equations) and FEMs to compute capacitive, conductance, inductance and resistance matrices. It uses the fast multipole method (FMM) to accelerate the solution of the integral equations.

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- Ozen Engineering
and ANSYS**

ANSYS and Q3D

Extractor are

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Getting Started with Q3D Extractor

Ansys Q3D Extractor contains an advanced quasi-static 3D electromagnetic field solver based on the method of moments (MoM), and is accelerated by the fast multipole method (FMM). Results include proximity and skin effect, dielectric and ohmic loss, and frequency dependencies. Q3D

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Extractor easily and quickly provides 3D extraction of resistance (R), partial inductance (L), capacitance (C) and conductance (G).

Capabilities of ANSYS Q3D Extractor

ANSYS releases Ansoft Designer and Ansoft electromagnetic field simulation technologies HFSS, Q3D Extractor, and Introduction to ansys

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Jose - Mar 21, 2013.

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Ansoft Q3d Manual

Ansys Q3D Extractor is
the premier 2-D and
3-D parasitic extraction
tool for engineers
designing electronic
packages.

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touchscreens and power electronic converters. Q3D Extractor performs electromagnetic field simulations required for the extraction of resistance, inductance, capacitance and conductance. Partial inductance and resistance are often extracted when designing power electronic converters, transformers and bus bars.

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Lecture 2: HFSS

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HFSS

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Introduction

ANSYS Q3D Extractor efficiently performs the 3D and 2D quasi-static electromagnetic field

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simulations required
for the extraction of
RLCG parameters from
an interconnect
structure.

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