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problems in
engineering.

Boundary value

problems are

also called

field problems.

The field is the

domain of

interest and

most often

represents a

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structure.

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being used more
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analysis (FEA)

is a

computerized

method for

predicting how a

product reacts

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to real-world
forces,
vibration, heat,
fluid flow, and
other physical
effects. Finite
element analysis
shows whether a
product will
break, wear out,
or work the way
it was designed.

Introduction to

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Finite Element
Analysis (FEA)
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Using SolidWorks
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Steps 1. Before
starting the FEA
of the
structure, do
some hand
calculations to
determine

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approximately what results (stresses or deflections) you should expect.

Assume

simplified

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loads. 2. Create

a solid model of

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(In general, it

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Simulation is a
virtual testing
environment to
analyze your
design, evaluate
its performance
and make
decisions to
improve product
quality. But how
does it
accomplish this?
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