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designing power
system

structures and

systems. It

contains four

chapters: The

first chapter

leads the reader

through all the

phases

necessary in the

procedures of

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computer aided modeling and simulation. It guides through the complex problems presenting on the basis of eleven original examples. The second chapter presents

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application of software tools in power system calculations of power systems equipment design. Several design example calculations are carried out using engineering standards like

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EMTP/ATP,
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AutoCAD and
Simulink. The
third chapters
focuses on the
graphical
documentation
using a collection
of software tools
(AutoCAD,

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EPLAN,
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DESIGN) which
enable the
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automation of the
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systems. In the fourth chapter, the application of software tools in the project management in power systems is discussed.

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on. One of the strong points of Excel is its MACRO capability to shorten and simplify the repetitive works using Visual Basic Application (VBA) programming language. At the next level macro can be developed to

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application, such as
structural analysis.

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need? So what
does an
engineer need
when creating
calculations?
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input
parameters,**

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**which should
be entered on
a very simple
and a quick
way, then a
simple sketch
as a graphical
representation
of the basis of
calculation
with
annotations of**

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parameters.

**After that
engineer
needs to
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very simple,
but it should
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program that is
commonly used
(Excel) as well
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Chapters cover
nonlinear
equations,
Visual Basic,
linear algebra,

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ordinary
differential
equations,
regression
analysis,
partial
differential
equations, and
mathematical
programming
methods. Each
chapter
contains

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examples that show in detail how a particular numerical method or programming methodology can be implemented in Excel and/or VBA (or MATLAB in chapter 10). Most of the

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examples and problems presented in the text are related to chemical and biomolecular engineering and cover a broad range of application areas including thermodynamics,

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fluid flow,
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mass transfer,
reaction
kinetics,
reactor design,
process design,
and process
control. The
chapters
feature "Did
You Know"
boxes, used to

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remind readers of Excel features. They also contain end-of-chapter exercises, with solutions provided.

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