

# MATLAB/SIMULINK Simulation Tool for Power Systems

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**Abstract** - This paper describes the modeling and simulation library for power systems simulation under SIMULINK environment. The different features of MATLAB Toolboxes used in the analysis of power systems are described. Software introduces SIMULINK environment of MATLAB for implementing user friendly and future expansion. To illustrate the capabilities of SIMULINK simulation tool, a case study based on a test system is presented.

**Keywords** - Modeling; Protective relaying; Power System Blockset

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## I. INTRODUCTION

A product of The MathWorks, Inc. MATLAB started life as a program designed to perform matrix mathematics, but over the years it has grown into a flexible computing system capable of solving essentially any technical problem. MATLAB can manipulate and invert large matrices and can be used in many numerical applications. MATLAB's capabilities can be extended with addition called SIMULINK, a program which is normally used in the analysis and synthesis of modern systems.

SIMULINK, now incorporated into MATLAB, can also be used to analyze and design of power systems. During last four decade's simulation of power systems have gained more importance. Recently published IEEE paper discussing different approaches to modeling protective relays and related power system events indicates a variety of possible software tools that may be used for this purpose [1]. But rather than MATLAB/SIMULINK software it is difficult to add the modeling and simulation features to teach specific protective relaying concepts that go beyond the level of detail originally provided by the software. The MATLAB software package with SIMULINK support and Power System Blockset (PSB) [2, 3] is utilized to develop customized model libraries for teaching protective relaying concepts.

In this paper the section II describes the reasons for using MATLAB compared with EMTP/ATP; section III

describes features of MATLAB toolboxes; section IV focused on block libraries of Power System Blockset and section V describes a case study.

## II. MATLAB DE-FACTO STANDARD

When we compare MATLAB/SIMULINK with EMTP/ATP, we will see which one is better for the power systems simulation. The following items summarize their most important differences in protection systems simulation [4]:

1. The EMTP/ATP is specific software to simulate power system transient problem, whereas the MATLAB/SIMULINK can be used to simulate power system faults and protective relay algorithm at the same time.
2. ATP/EMTP is designed to simulate the physical processes of transmission lines and transformers quickly and in a convenient way but MATLAB/SIMULINK offers more possibilities in power electronics, signal processing and control.
3. Users can easily create new relay model with MATLAB/SIMULINK, whereas EMTP/ATP doesn't have such capacity.
4. MATLAB/SIMULINK encompasses better graphic function tools than EMTP/ATP of pcpilot, plotxy and so on.

Therefore, for automatic interactive systems MATLAB/SIMULINK is selected.

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## **Table of Contents Matlab Simulink Simulation Tool For Power Systems**

1. Understanding the eBook Matlab Simulink Simulation Tool For Power Systems
  - The Rise of Digital Reading Matlab Simulink Simulation Tool For Power Systems
  - Advantages of eBooks Over Traditional Books
2. Identifying Matlab Simulink Simulation Tool For Power Systems
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Matlab Simulink Simulation Tool For Power Systems
  - User-Friendly Interface

4. Exploring eBook Recommendations from Matlab Simulink Simulation Tool For Power Systems
  - Personalized Recommendations
  - Matlab Simulink Simulation Tool For Power Systems User Reviews and Ratings
  - Matlab Simulink Simulation Tool For Power Systems and Bestseller Lists
5. Accessing Matlab Simulink Simulation Tool For Power Systems Free and Paid eBooks
  - Matlab Simulink Simulation Tool For Power Systems Public Domain eBooks
  - Matlab Simulink Simulation Tool For Power Systems eBook Subscription Services
  - Matlab Simulink Simulation Tool For Power Systems Budget-Friendly Options
6. Navigating Matlab Simulink Simulation Tool For Power Systems eBook Formats
  - ePub, PDF, MOBI, and More
  - Matlab Simulink Simulation Tool For Power Systems Compatibility with Devices
  - Matlab Simulink Simulation Tool For Power Systems Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Matlab Simulink Simulation Tool For Power Systems
  - Highlighting and Note-Taking Matlab Simulink Simulation Tool For Power Systems
  - Interactive Elements Matlab Simulink Simulation Tool For Power Systems
8. Staying Engaged with Matlab Simulink Simulation Tool For Power Systems
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Matlab Simulink Simulation Tool For Power Systems
9. Balancing eBooks and Physical Books Matlab Simulink Simulation Tool For Power Systems
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Matlab Simulink Simulation Tool For Power Systems
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Matlab Simulink Simulation Tool For Power Systems
  - Setting Reading Goals Matlab Simulink Simulation Tool For Power Systems
  - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Matlab Simulink Simulation Tool For Power Systems
  - Fact-Checking eBook Content of Matlab Simulink Simulation Tool For Power Systems
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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