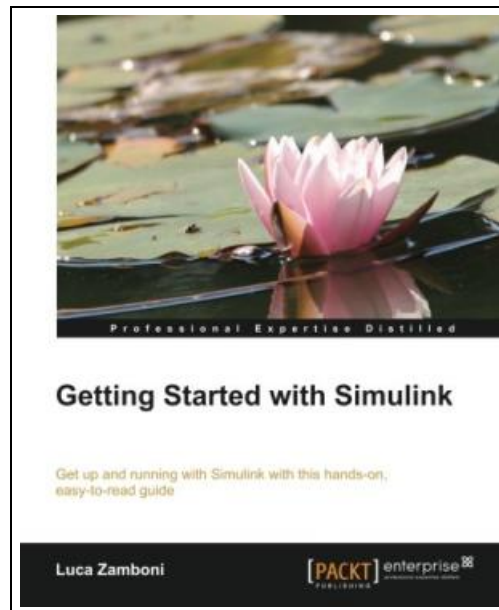


Getting Started with Simulink



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GETTING STARTED WITH SIMULINK



Packt Publishing. Paperback. Condition: New. 132 pages. Dimensions: 9.2in. x 7.5in. x 0.3in. Get up and running with Simulink with this hands-on, easy-to-read guide. Overview Dig deep into Simulink. No unnecessary theory - start modelling right away. Complex concepts made easy through examples. Packed with illustrations and detailed step-by-step walkthroughs. In Detail Simulink is an engineer's Swiss army knife: instead of spending the day typing out complex formulas, Simulink enables you to both draw and execute them. Block after block, you can develop your ideas without struggling with obscure programming languages and you don't have to wait to debug your algorithm - just launch a simulation! Getting Started with Simulink will give you comprehensive knowledge of Simulink's capabilities. From the humble constant block to the S-function block, you will have a clear understanding of what modelling really means, without feeling that something has been left out. By the time you close the book, you'll be able to further extend your modelling skills without any help. We'll start with a brief introduction, and immediately start placing the first blocks. Little by little, you'll build a car cruise controller model, followed by the mathematical model of a sports car in order to calibrate it. Then you'll learn how to interface your Simulink model with the external world. This book will give you an easy understanding of the tools Simulink offers you, guiding you through a complex exercise split into the three main phases of Simulink development: modelling, testing, and interfacing. What you will learn from this book: Understand the pros and cons of Simulink. Describe your ideas using block diagrams. Tune your simulation parameters. Draw clean, uncluttered models by reusing the logic and subdividing it into inner blocks. Run simulations with the appropriate source blocks. Analyse the simulation results with the scope block...



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