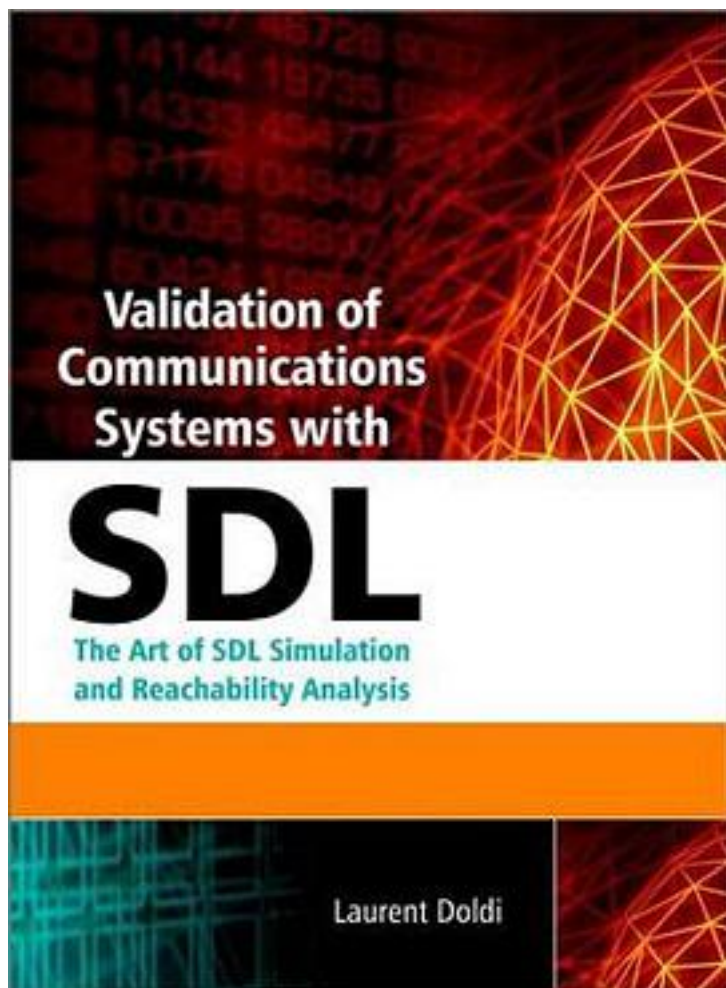


Validation of Telecom Systems with SDL



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Validation of Communications Systems with SDL provides a clear practical guide to validating, by simulation, a telecom system modelled in SDL. SDL, the Specification

and Description Language standardised by the International Telecommunication Union (ITU-T), is used to specify and develop complex systems such as GSM, GPRS, UMTS, IEEE 802.11 or Hiperlan. Since the downturn in the telecom industry, validating a system before its implementation has become mandatory to reduce costs.

This volume guides you step by step through the validation of a simplified protocol layer, from interactive simulation to proof of properties using reachability analysis combined with observers. Every step is explained, using the two main SDL tools commercially available: ObjectGeode®; and Tau SDL®; Suite, both from Telelogic.

Contents:

Short tutorial on SDL

Presentation of the protocol layer case study

Interactive simulation, MSC generation

Scripting, automatic non-regression

Automatic validation against MSC, HMSC, etc.

Random simulation

Exhaustive and bit-state simulation

Errors detected and not detected by simulation

Other simulator features

This book offers you the opportunity to:

Learn expert validation techniques and tips

Master advanced simulation features of Telelogic ObjectGeode®; and Tau SDL Suite®;

Practice 156 hands-on exercises with solutions. The SDL models and scripts used in the exercises can be downloaded from the Web.

作者介绍:

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