

# NEW BOOK ANNOUNCEMENT!



## Computing Systems Reliability: Models and Analysis

Pub. Date: 04/04

Pages: 303 ISBN: 0-306-48496-X

List Price: USD 128.00

EUR 117.00

GBP 81.00

by

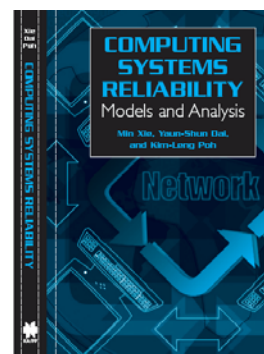
**M. Xie, Y.S. Dai, K.L. Poh**

Computing systems are of growing importance because of their wide use in many areas including those in safety-critical systems. This book describes the basic models and approaches to the reliability analysis of such systems. An extensive review is provided and models are categorized into different types. Some Markov models are extended to the analysis of some specific computing systems such as combined software and hardware, imperfect debugging processes, failure correlation, multi-state systems, heterogeneous subsystems, etc. One of the aims of the presentation is that based on the sound analysis and simplicity of the approaches, the use of Markov models can be better implemented in the computing system reliability.

---

### CONTENTS:

Models for Hardware System Reliability  
Models for Software Reliability  
Models for Integrated Systems  
Availability and Reliability of Distributed Computing Systems  
Reliability of Grid Computing Systems  
Multi-State System Reliability  
Optimal System Design and Resource Allocation  
Notes and References



-----  
Kluwer Academic Publishers, 233 Spring St. 7<sup>th</sup> Floor New York, NY 10013 Fax: 212-463-0742 Tel:  
212-620-8000 E-mail: [Kluwer@wkap.com](mailto:Kluwer@wkap.com)  
-----

--