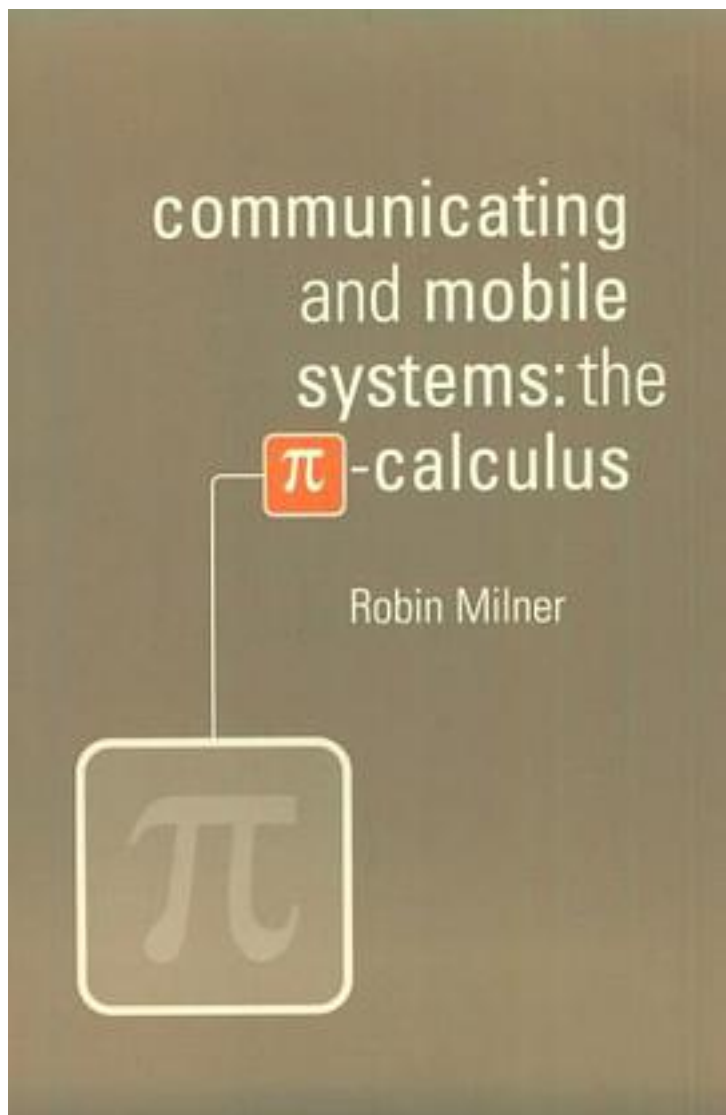


Communicating and Mobile Systems



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The pi-calculus differs from other models of communicating behaviour mainly in its treatment of mobility. The movement of a piece of data inside a computer program is treated exactly the same as the transfer of a message - or indeed an entire computer program - across the internet. One can also describe networks which reconfigure themselves. The calculus is very simple but powerful; its most prominent ingredient is the notion of a name. Its theory has two important ingredients: the concept of behavioural (or observational) equivalence, and the use of a new theory of types to classify patterns of interactive behaviour. The internet, and its communication protocols, fall within the scope of the theory just as much as computer programs, data structures, algorithms and programming languages. This book is the first textbook on the subject; it has been long-awaited by professionals and will be welcomed by them, and their students.

作者介绍:

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标签

Formalism

計算機

数学

pl

Robin_Milner

CS

评论

剑桥本科教材，2012年用于研究生教材，内容略显陈旧，思想依然崭新。有什么用？玩玩而已。Milner是图灵奖得主，2010年去世，学界巨大的损失，其宝贵的学术财富将深远地影响计算机科学的发展。

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书评

PI calculus 可以说是
CCS加上的移动的版本，表达能力很强，不过初学者会无法理解这个演算到底是干啥的，本质上也是一门形式化语言。。。建模 验证用的

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