

**Broy, Manfred; Stølen, Ketil**

**Specification and development of interactive systems. Focus on streams, interfaces, and refinement.** (English) [Zbl 0981.68115](#)

Monographs in Computer Science. New York, NY: Springer. xv, 348 p. (2001).

This book is devoted to modal and temporal logics for processes. The material is organized in seven chapters. In chapter I are introduced the processes as expressions of a single language built from a few basic operators. Some abstractions from the overall behaviour of a process are considered in chapter II. On equivalences for calculus of communicating systems processes defined in terms of bisimulation relations is focused in next chapter. Chapters IV and V treats different properties related to modal logics and temporal logic introduced in chapter 2. In chapter VI is shown that game theoretic ideas provide a general framework for verification of temporal properties. The goal of last chapter is in checking properties of sets of processes.

Reviewer: [Costică Moroşanu \(Iaşi\)](#)

**MSC:**

- [68Q85](#) Models and methods for concurrent and distributed computing (process algebras, bisimulation, transition nets, etc.)
- [68-02](#) Research exposition (monographs, survey articles) pertaining to computer science
- [03B44](#) Temporal logic
- [03B45](#) Modal logic (including the logic of norms)

Cited in **1** Review  
Cited in **29** Documents

**Keywords:**

[calculus of communicating systems](#); [sets of processes](#)

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