

**Liggett, Thomas M.**

**The coupling technique in interacting particle systems.** (English) Zbl 0796.60099

Cohn, Harry (ed.), Doeblin and modern probability. Proceedings of the Doeblin conference '50 years after Doeblin: development in the theory of Markov chains, Markov processes, and sums of random variables' held November 2-7, 1991 at the University of Tübingen's Heinrich Fabri Institut, Blaubeuren, Germany. Providence, RI: American Mathematical Society. Contemp. Math. 149, 73-83 (1993).

The paper is devoted to explain the use of the coupling technique for interacting particle systems. The chosen examples, the voter model, the contact and the exclusion process, include in particular a Markov process with more than one invariant measure.

For the entire collection see [[Zbl 0777.00028](#)].

Reviewer: [U.Rösler \(Göttingen\)](#)

**MSC:**

[60K35](#) Interacting random processes; statistical mechanics type models; percolation theory Cited in **2** Documents

[60J25](#) Continuous-time Markov processes on general state spaces

**Keywords:**

voter model; contact process; exclusion process; coupling technique; interacting particle systems; invariant measure