

Bratteli, Ola; Robinson, Derek W.

Operator algebras and quantum statistical mechanics 1. C^* - and W^* - algebras, symmetry groups, decomposition of states. (English) [Zbl 0421.46048](#)

Texts and Monographs in Physics. New York - Heidelberg - Berlin: Springer-Verlag. XII, 500 p. DM 68.00; \$ 37.40 (1979).

For a scan of this review see the [web version](#).

MSC:

- 46L05 General theory of C^* -algebras
- 46L10 General theory of von Neumann algebras
- 82B10 Quantum equilibrium statistical mechanics (general)
- 46-02 Research exposition (monographs, survey articles) pertaining to functional analysis
- 46L60 Applications of selfadjoint operator algebras to physics

Cited in **6** Reviews
Cited in **381** Documents

Keywords:

quantum statistical mechanics; Tomita-Takesaki theory; structure theory of von Neumann algebras; quasi-local algebras; decomposition theory of states; reduction theory; barycentric decomposition theory; maximal measures; orthogonal measures; Borel structure in the state space; automorphism group