



Lattices and Ordered Sets

By Steven Roman

Springer. Hardcover. Book Condition: New. Hardcover. 305 pages. Dimensions: 9.3in. x 6.3in. x 0.8in. This book is intended to be a thorough introduction to the subject of order and lattices, with an emphasis on the latter. It can be used for a course at the graduate or advanced undergraduate level or for independent study. Prerequisites are kept to a minimum, but an introductory course in abstract algebra is highly recommended, since many of the examples are drawn from this area. This is a book on pure mathematics: I do not discuss the applications of lattice theory to physics, computer science or other disciplines. Lattice theory began in the early 1890s, when Richard Dedekind wanted to know the answer to the following question: Given three subgroups E , F , and G of an abelian group K , what is the largest number of distinct subgroups that can be formed using these subgroups and the operations of intersection and sum (join), as in $EFEFG$ and so on. In lattice-theoretic terms, this is the number of elements in the relatively free modular lattice on three generators. Dedekind answered this question (the answer is 15) and wrote two papers on the subject of lattice theory, but...



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