

MA-613 ORDERED VECTOR SPACES

General facts about ordered sets, lattices, convergence, with respect to the order relation.

Topological vector spaces, locally convex spaces, uniform convergence, topologies in spaces of linear continuous operators, Duality between vector spaces.

Ordered vector spaces, Directed spaces and Archimedean spaces, Vector Lattice, Decomposition of a vector lattice, Concrete spaces, Topological ordered vector spaces.

RECOMMENDED BOOKS:

1. Peressini, A.L., Ordered Topological Vector Spaces, Harper and Row.
2. Cristescu, T., Ordered Vector Spaces and Linear Operators, Abacus Press, England.