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In mathematics and abstract algebra, group theory studies the algebraic structures known as groups. The concept of a group is central to abstract algebra: other well-known algebraic structures, such as rings, fields, and vector spaces, can all be seen as groups endowed with additional operations and axioms. In mathematics, a group is a set equipped with a binary operation which combines any two elements to form a third element in such a way that four conditions called group axioms are satisfied, namely closure, associativity, identity and invertibility. Modern Chemistry (MC) aims to promote rapid communication and dialogue among the researchers, scientists, engineers and policy makers working in the areas of modern chemistry in the world. It publishes research results dealing with all aspects of chemistry. The journal publishes the most significant new research papers or any other original ...3 Dirace statistics – Heat capacities of solids – Einstein and Debye Models Low temperature – Negative absolute temperature. Chemical equilibrium – thermodynamic derivation of equilibrium constant – standard free energy