Fusion in representation theory I

The main topic of the Algebra Seminar at WMU this academic year is Fusion Systems. Fusion Systems has its antecedents in the work of Burnside. We now venture into representation theory to see how Fusion Systems and representation theory, both ordinary and modular, interact. To each p-block of a finite group, in the group algebra, one may associate a fusion system. In this first talk, I will recall the classical Wedderburn theory, the role of idempotents in the group algebra, and introduce p-modular systems.