

A Study on Wedderburn - Artin Theorem for Rings

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Abstract : The study depicts that a Wedderburn Artin - theorem for rings is considered to be a semisimple ring R which is isomorphic to a product of finitely many m_i by m_i matrix rings over division rings D_i , for some integers n_i , both of which are uniquely determined up to permutation of the index i . It has been concluded that when R is simple the Wedderburn - Artin theorem is known as Wedderburn's theorem.

Keywords : Commutativity, Wedderburn theorem, Semisimple ring, R module

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