



Triangular Products of Group Representations and Their Applications

By S. M. Vovsi

Birkhauser. Paperback. Book Condition: New. Paperback. 144 pages. Dimensions: 9.2in. x 6.1in. x 0.3in. The construction considered in these notes is based on a very simple idea. Let (A, G) and (B, G) be two group representations, for definiteness faithful and finite $1 \leq 2$ dimensional, over an arbitrary field. We shall say that a faithful representation (V, G) is an extension of (A, G) by (B, G) if there is a G -submodule W of V such that $1 \leq 2$ the naturally arising representations (W, G) and $(V/W, G)$ are isomorphic, modulo their kernels, to (A, G) and (B, G) respectively. $1 \leq 2$ Question. Among all the extensions of (A, G) by (B, G) , does there exist $1 \leq 2$ such a universal extension which contains an isomorphic copy of any other one The answer is in the affirmative. Really, let $\dim A = m$ and $\dim B = n$, then the groups G and G may be considered as matrix groups of degrees m and n $1 \leq 2$ respectively. If (V, G) is an extension of (A, G) by (B, G) then, under certain $1 \leq 2$ choice of a basis in V , all elements...



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