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(Reyes Murphy)

TRIANGULAR PRODUCTS OF GROUP REPRESENTATIONS AND THEIR APPLICATIONS



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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 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 the naturally arising representations (W, G) and $(V/W, G)$ are isomorphic, modulo their kernels, to (A, G) and (B, G) respectively. Question. Among all the extensions of (A, G) by (B, G) , does there exist 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 respectively. If (V, G) is an extension of (A, G) by (B, G) then, under certain choice of a basis in V , all elements of G are represented by $(m+n) \times (m+n)$ matrices of the form $\begin{pmatrix} \alpha & \beta \\ \gamma & \delta \end{pmatrix}$. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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