

## A STUDY ON THE UNIFIED FIELD TENSOR ${}^*g_{\lambda\mu}$ IN $X_\gamma$

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The purpose of the present paper is to derive the generalized representations of the unified field tensor  ${}^*g_{\lambda\mu}$ , defined by (2.7), in a generalized  $n$ -dimensional Riemannian space  $X_\gamma$ , using newly obtained  $n$ -dimensional recurrence relations. As an application of the representations obtained in the present paper, we prove in the final chapter that two  $n$ -dimensional unified field theories,  $n$ - $g$ - $UFT$  and  $n$ - ${}^*g$ - $UFT$ , are identical so far as their classification of classes is concerned.

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