

USE OF EXTERIOR CALCULUS IN FIELD EQUATIONS

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In working with field equations it is necessary to deal with quantities which have a large number of components such as tensors. Although they can be worked with coordinate dependent components in some cases generally it is a tedious process.

Using exterior calculus and concepts in modern differential geometry they can be expressed in an elegant form and can be worked with more conveniently.

Differential geometry and use of exterior calculus in field equations were studied and used in solving some problems.