Rajabi, Tahere; Sadeghzadeh, Nasrin
A new class of Finsler metrics. (English) Zbl 07349616
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Summary: In this paper, we construct a new class of Finsler metrics which are not always \((\alpha, \beta)\)-metrics. We obtain the spray coefficients and Cartan connection of these metrics. We have also found a necessary and sufficient condition for them to be projective. Finally, under some suitable conditions, we obtain many new Douglas metrics from the given one.

MSC:
53B40 Local differential geometry of Finsler spaces and generalizations (areal metrics)
53C60 Global differential geometry of Finsler spaces and generalizations (areal metrics)

Keywords:
Finsler geometry; \((F, \beta)\)-metric; \(h\)-vector; projective change; Douglas space

Full Text: Link

References:

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