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form a class of

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numerical methods for
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equations. They
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combine features of

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seemingly immune to
many of the problems
that commonly plague

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high order finite

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and as such has the

potential to bring the

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Radiative transfer equation (RTE) arises in many different areas of science and engineering. In this paper, we propose and investigate a discrete-ordinate discontinuous-streamline diffusion (DODSD) method for solving the RTE, which is a combination of the discrete-ordinate

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technique and the discontinuous-streamline diffusion method.

Different from the discrete-ordinate

discontinuous

Galerkin (DODG)

method for the RTE,

an artificial diffusion

parameter is added to

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This allows us to partition the computational domain into subdomains of polygons of arbitrary shapes, so that all atoms are located at the interior of a subdomain. This is achieved using a partitioning strategy based on the Voronoi

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decomposition. We refer to this procedure as the discontinuous Galerkin formalism with Voronoi partitioning (DG-

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