

“The transport equation of Radiative transfer in a three-dimensional space with anisotropic scattering.”

Abstract: The equation of radiative transfer describes the transport of energy through media which absorb, emit or scatter radiation. The work considers the transport equation in a general three-dimensional space, when the scattering function consists of the first three terms of a series of Legendre polynomials. The integro-differential equation will then be reduced to the resulting integral equations which may then be used for the solution of Radiative transfer problems in space, where the radiation is restricted to normal incidence.