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Beam is diffused to various directions when it hits the surface. Therefore there is no beam source term in the ocean and only one expression in the atmosphere for the rough ocean case, which is $Q_{\downarrow} = \frac{F_0 P_{\downarrow}}{A_0} \exp(-A_0 z)$ (2) where A_0 is the total optical depth of the atmosphere. 1th, 2024 New Insights Into Radiative Transfer Within Sea Ice ... Cation of the Prototype, and provide first new insights into the spatiotemporal aspect of radiative transfer within the sea ice itself. In particular, we investigate how measured attenuation coefficients relate to the optical properties of the ice pack and show that sideward planar irradiance measurements are 22th, 2024 Lecture 27: Radiative Forcing of Climate Change Ppmv/yr in the 1960s, 1.28 Ppmv/yr during the 1970s, and 1.53 Ppmv/yr during the 1980s. The concentration in the spring of 2005 was about 380 Ppmv. Data from Mauna Loa are close to, but are not precisely the global mean value. The Mauna Loa record is due to Prof. Keeling of the Scripps Institution of Oceanography. 5th, 2024.

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$$D L(\theta, \phi) / dr = -C(z) L(z, \theta, \phi) + \int 4\pi \beta(z, \theta, \phi; \theta', \phi') L(\theta', \phi') D\Omega'$$
 We measure as a function of depth rather than pathlength $Z R \theta R = Z / \cos\theta \cos\theta dL(\theta, \phi) / dz = -C(z) L(z, \theta, \phi) + \int 4\pi \beta(z, \theta, \phi; \theta', \phi') L(\theta', \phi') D\Omega'$ 9th, 2024. Optical-Thermal Day 1 Lecture 2 Radiative Transfer in Soil ... Optical-Thermal Day 1 Lecture 2 Radiative Transfer in Soil-canopy-atmosphere system 1 8 Leaf Radiative Transfer • Thin Compact Medium • Internal Scattering • Selective Absorption (pigments, water, dry matter) PROSPECT Model (Jacquemoud & Baret, 1990) • Analogy to pile of glass plates to simulate internal scattering 16th, 2024 There is a lot of books, user manual, or guidebook that related to radiative processes in high energy astrophysics Lecture Notes in Physics PDF in the link below:

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