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Sommario/riassunto	The work is aimed at the review of hot topics in modern light scattering and radiative transfer. A special attention will be given to the description of the methods of integro-differential radiative transfer equation solution. In particular, the asymptotic radiative transfer and the method of discrete ordinates will be considered. A comprehensive review of light absorption in the terrestrial atmosphere will be given as well. The inverse problem solution will be reviewed as well.

