sphere, to sense the vertical distribution of atmospheric constituents, or of their temperatures, and to peer down through the atmosphere from a satellite to sense earth resources.

With the new remote-sensing instruments probing the atmosphere (or attempting to see through it), there has also occurred a vigorous revival in the atmospheric sciences.

The last half dozen years have seen the appearance of several good reference books (those by Goody and by Kondratvev for example) that deal with atmospheric radiation processes—chiefly the processes of emission, transmission, and radiative transfer—in which light is absorbed and reemitted. The present book addresses itself primarily to optical scattering, the process during which light rays are changed in direction by reflection from the particles or molecules of the atmosphere: the light is not absorbed, it is scattered. Optical scattering is a complex phenomenon that depends on the wavelength of the incident light and on the abundance of the particles, their sizes and shapes, and the range of size distributions. When the size of the scattering particles is small relative to the wavelength of the light, the scattering is described by a classical theory worked out by Rayleigh in 1871 and called Rayleigh scattering. When the wavelength of the light is of the same order of magnitude as the diameter of the scattering particles, a much more complicated theory applies. It is generally ascribed to Gustav Mie and is called Mie scattering. When the scattering particles are larger than the wavelength of the light, as with raindrops or fog particles, the classical laws of optical reflection from surfaces can be applied, and we can speak of white clouds reflecting sunlight or light diffused by rain and fog. It is hard to believe that until Rayleigh introduced his theory just over a hundred years ago we had no proper understanding of or explanation for even such everyday matters as why the sky is blue or why sunsets are red. (Optical scattering theory also explains why on hazy days in places like Los Angeles the sky is brown and the sunsets murky.)

This is the first book I have seen that includes a systematic treatment of Rayleigh scattering, Mie scattering, and scattering by nonspherical particles such as ice crystals or atmospheric haze. The standard theory is covered in some detail, and the author has read and digested the vast literature on atmospheric aerosols, haze, smokes, and pollutants, much of it empirical and in need of inter-

pretation by someone versed in scattering theory. The book is well documented, with references as recent as 1975. It is intended not for the casually interested layman but for those who are engaged in research on the environment, atmospheric phenomena, remote sensing, meteorology, or just plain optical physics, who will find it authoritative and useful.

JOHN N. HOWARD

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