

scattering matrix

The Stokes parameters of scattered light are given by the matrix equation

$$(s_0, s_1, s_2, s_3) = \mathbf{F} (s_0^0, s_1^0, s_2^0, s_3^0)$$

where the 4, 4 scattering matrix \mathbf{F} is comprised of 16 scattering matrix elements. These matrix elements, which may originate in theory or experiment, provide a complete description of the scattered radiation in terms of the incident radiation.

Source:

PAC, 1983, 55, 931 (*Definitions, terminology and symbols in colloid and surface chemistry. Part 1.14: Light scattering (Provisional)*) on page 934