

Bibliography on the theory of imaging of illuminated objects

This is an overview of the related works, as far as they are known to us.

Rayleigh, "On the theory of optical images, with special reference to the microscope," *Phil. Mag.* **42** (1896).

J. Stoney, "Microscopic vision," *Phil. Mag.* **42** (1896).

L. Wright, "Microscopic vision and images," *Phil. Mag.* **45** (1898).

K. Strehl, "Theorie des Mikroskops (Theory of the microscope)," *Zeitschr. f. Instrkde.* **18** (1898).

K. Strehl, "Das Pleurosigmabild (Image of the pleurosigma)," *ibid.* **19** (1899).

K. Strehl, "Theorie der allemeinen mikroskopischen Abbildung (Theory of general microscopic imaging)," *Meeting reports of Phys.-Med. Soc. Erlangen* **32** (1900).

J. W. Gordon, "An examination of the Abbe's diffraction theory of the microscope," *Journ. Roy. Microscop. Soc.* 1901.

J. Rheinberg, "The common basis of the theories of microscopic vision treated without the aid of mathematical formulae," Leipzig, Hirzel, 1902.

A. E. Conrady, "Theories of microscopical vision. I," *Roy. Microscop. Soc.* 1904.

- J. Rheinberg, "Influence on images of gratings of phase-differences amongst their spectra," *Roy. Microscop. Soc.* 1904.
- J. D. Everett, "A direct proof of Abbe's theories on the microscopic resolution of gratings," *Roy. Microscop. Soc.* 1904.
- A. E. Conrady, "Theories of microscopical vision. II," *Roy. Microscop. Soc.* 1905.
- J. Rheinberg, "Doubling of the lines in the Abbe's experiments," *Quekett Club Journal* **IX** (1905).
- J. Rheinberg, "Influence on images of gratings of phase-differences amongst their spectra," *Roy. Microscop. Soc.* 1905.
- A. E. Conrady, "An experimental proof of phase-reversal in diffraction spectra," *Roy. Microscop. Soc.* 1905.
- A. B. Porter, "On the diffraction theory of microscopic vision," *Phil. Mag.* **11** (1906).
- A. B. Porter, "On the nature of optical images," *Phys. Rev.* **24** (1907).

Many of the mentioned works contain valuable contributions to the theory of imaging of illuminated objects, with the object illuminated from various sides, and some contain special cases treated by us. None of these treatments, however, give a systematic construction of the theory of imaging of illuminated objects and a full analytical development of Abbe's theory.