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Optical Properties of Polyvinyl alcohol-Diammonium phosphate Composite

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Abstract : In this work, samples of polyvinyl alcohol (PVA)-Diammonium phosphate (DAP) composites were prepared by using casting method. The effects of addition of (DAP) concentration on the optical properties of (PVA-DAP) composite have been studied in the wavelength range (200-800) nm. The absorption spectra, transmittance spectra, absorption coefficient, energy gap, refractive index, optical conductivity and extinction coefficient have been determined. The results show that the optical constants change with the increase of DAP concentrations.

Key word : composites, optical properties, DAP, energy gap, absorption.

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