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Synthesis and properties of polyaniline

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Book Condition: New. Publisher/Verlag: LAP Lambert Academic Publishing | Doping in polyaniline and Its application | Polymers are large molecules made up of simple repeating units. Polymer with significant electronic conductivity has developed from laboratory curiosities to important commercial materials in the span of last 25 years. Polyaniline (PANI) is a conducting polymer of the semi-flexible rod polymer family. Polyaniline is among a family of conductive polymer and has properties similar to some metals. The most important characteristic however is that when polymers are highly oxidized, the charge carriers are spin less. Conductivity in a normally insulating polymer is made possible by doping. Doping is the treatment with halogen. The result of UV-Vis shows the optical properties of sample. In FTIR result, showing of stretching vibration shows bonding between atoms. The result of XRD shows that our polymer is amorphous in nature. | Format: Paperback | Language/Sprache: english | 68 pp.



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