

CHAPETER V

CONCLUSION

Admicellar polymerization can be adapted for latex with surfactant molecules forming aggregates on the surface of latex particles in aqueous solution. The method has been employed to form thin PPy films on the charged surface of NR. NR latex exhibits a PZC at 3.9 so anionic surfactant, SDS, is chosen with solution pH adjusted to 3.0. Pyrrole causes a decrease in surfactant adsorption. In the presence of small amount of salt, sodium chloride, substantially improves the surfactant adsorption and pyrrole adsolubilization. The dried film of a PPy coated NR latex exhibits lower conductivity than that of PPy distributed independently from NR latex. The film of PPy coated NR latex containing salt gives higher conductivity than the one containing only SDS.