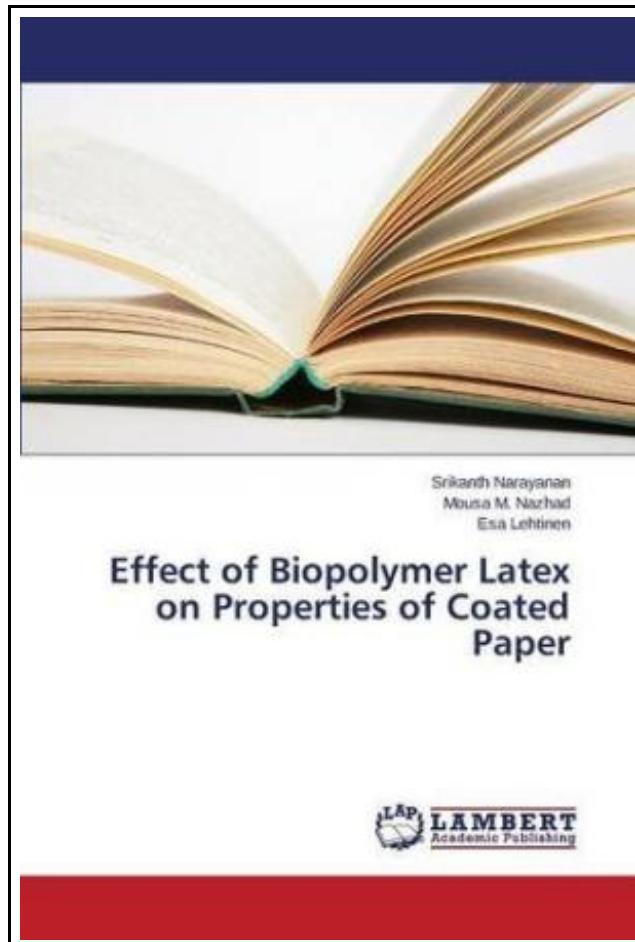


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LAP Lambert Academic Publishing Mrz 2015, 2015. Taschenbuch. Book Condition: Neu. 220x150x5 mm. This item is printed on demand - Print on Demand Neuware - The main focus of this work is to study the substitution of synthetic latex with natural bio polymer latex which was produced from tapioca starch. The study approach is a systematic simple design of experiment to conduct the research as mentioned. The parameter varied in proportions are addition of bio polymer latex with two other synthetic latex namely SB and SA. As noted that the bio polymer latex in top coat applications can be substituted up to 50-75% against synthetic binders such as SB and SA latex respectively. The main reasons are ease of coating formulations; good rheology behavior, controlled ink absorption and good dry pick strength of paper. In contrast, Bio polymer latex has potential to replace 100% of synthetic binder (5-7 parts) in the pre-coating application were co-binders such as CMC and HEC are not required. It is noted that combined use of synthetic and bio polymer latex exhibits many advantages in terms of printing and surface properties. The amount of bio polymer latex and synthetic binder ratios can be selected depending upon the final quality of the product. In conclusion, bio based polymer latex is produced from renewable resources and Eco-friendly also. 80 pp. Englisch.

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