



## Coating of Yarns with Electro-active Layers

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By Syed Asaduzzaman

GRIN Verlag GmbH Jun 2015, 2015. Taschenbuch. Book Condition: Neu. 210x148x3 mm. This item is printed on demand - Print on Demand Neuware - Project Report from the year 2015 in the subject Textile, Print, Crafting, grade: 1, Niederrhein University of Applied Sciences Mönchengladbach, course: Master Management of textile Trade and Technology, language: English, abstract: Recently electrically conductive textiles have been of increasing research interest due to their numerous possibilities for application in various fields of activity. These conductive textiles in future will be used in clothing to measure body parameters or in textiles used to protect against electromagnetic shielding. As this is an emerging field, there is still a lack of characterizing and evaluating the performance of these conductive materials. In the scope of this project work, different yarn materials are coated with Polypyrrole and Carbon (Graphite). These layers are applied to realize textile humidity and temperature sensors. Coated yarns are characterized in order to evaluate their behavior when being worn in every-day life. So, Literature study on electro-less coating of textile structures with Polypyrrole and Carbon (Graphite) coating of different yarn materials and Characterization of coated yarns is presented in this project work. 52 pp. English.



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