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编者论坛

本期内容浅析

专论与综述

纺织企业质量管理体系实现从优秀向卓越的探讨 靛蓝染料染色中还原剂的应用研究 几种氧化还原体系在羊毛低温染色中的应用 织物拒水拒油含氟整理剂的替代取向

生产技术 粘胶/亚麻交织织物染整加工工艺王 薇 张 勤(14) PTT纤维织物的印花工艺研究 杨全玉 汪靖婷 孙向东(17) T/C/T-400混纺织物的连续平幅染整加工 涤纶热定型轧染一步法生产工艺

清洁生产 脱色同用水水质分析及其在毛、棉染色中的再利用研究 离子交换织物对水中Cu2 的吸附研究 染料与助剂 水溶性高分子染料的制备及在涤棉织物染色上的应用 阳离子无甲醛固色剂的合成及应用刘轶礼 王春梅(38) 戊二醛-β-环糊精接枝棉织物的制备(二)董 宁 隋淑英 张 林等(42) 经验交流 B型活性染料对竹纤维针织物染色工艺研究姚 平 单延延(46) 唐教授信箱 染整生产疑难问题解答 百 花 苑

染色轧车的"均匀"、"可调"工况

讲 座

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TEXTILE DYEING AND FINISHING JOURNAL

Vol.33,No.4,Apr.2011

Contents and Abstracts

FEATURES AND REVIEWS

How to Perfect the Quality Control System of Textile Enterprises

By Hui YANG, Xinyang Quality & Technology Supervision Bureau of Henan Province; Xinyang Henan

Abstract: It is an unavoidable subject for an enterprise after having been certified as how to insure its quality control.

This paper discusses the quality control system in terms of the features, connotation of effectiveness, affecting factors

Key words: quality control system; effectiveness; keep

as well as measures for implementation.

Application of Reducing Agents during Dyeing of Cotton with Indigo

By Lijun YUAN, Jiming YAO, Textile Chemistry and Dyeing and Finishing Engineering, Hebei University of Science and Technology

Abstract: An investigation into the application of reducing agents sodium hydrosulfite and thiourea dioxide is made during dyeing of cotton fabric with indigo, the paper discusses the effects of the dosages of reducing agent and sodium hydroxide on the reduction potential of dye liquor and the K/S value, dry and wet rubbing colour fastness of the dyed fabric. And it is found that better dyeing result can be achieved when indigo concentration =10g/L (omf), thiourea dioxide =7g/L, sodium hydroxide =10g/L.

Key words: indigo; reduction potential; reducing agent; K/S value

Redox Systems to Low Temperature Dyeing of Wool

By Zhengxing ZHOU, Yuanmei YANG, Qing GE, Xu WANG, Inner mongolia University of Technology, Hohhot, Inner mongolia Abstract: The effects of application different redox systems in low temperature dyeing of wool are analysed using single factor experiment, and three redox systems are compared for their advantages and disadvantages, so that the optimal dyeing process of wool with weak acid dyes is obtained.

Key words: redox system; low temperature; wool

PRODUCTION TECHNIQUE

Dyeing and Finishing of Viscose/ Linen Union Fabric

By Wei WANG, Qing ZHANG, Zhangjiagang Jinling Textile Company Limited, Suzhou, Jiangsu

Abstract: Since the shrinkage rate of the viscose/ linen union fabric produced by our company is difficult to control, slack drying in combination with resin finishing are used for the fabric so that its shrinkage rate is effectively control. The results indicate that this process imparts the fabric desired shrinkage rate and smooth hand.

Key words: viscose; linen; slack finishing; resin treatment; shrinkage rate

Printing of PTT Fabric

By Jinyu YANG, Qingting WANG; Xongdong SUN, College of Chemical Engineering, Wuhan Textile University Wuhan, Hubei

Abstract: A preliminary study of printing of PTT fabric makes an analytical comparison of the results of printing as a function of fixing temperature, relative moisture of fixing, fixing time, amount of urea, amount of ammonium sulfate etc, based on the depth of shade of PTT fabric dyed with disperse dyes.

Key words: PTT fibre; disperse dyes; printing process

CLEAN PRODUCTION



Quality Analysis of the Discoloured Dye Wastewater and Its Recycling Use in Cotton and Wool Dyeing

By Wei1 SUN, Xue-yan¹ WANG, Yong-hong² LIU, Ying¹ LI, 1.School of Textile and Material, Xi'an Polytechnic University, Xi'an, Shanxi;

2.College of Environment and Chemical Engineering, Xi'an Polytechnic University, Xi'an, Shanxi

Abstract: Discolouration treatment of dye wastewater is carried out via coagulation and sedimentation with finishing agent from waste bio-protein and the discoloured wastewater is analysed for its quality and reused in the dyeing of cotton with reactive and direct dyes and of wool top with acid, Lanasol and Lanaset dyes. The dyeing properties are compared with those by using running water. The results show that discoloured dye wastewater can be reused in cotton and wool dyeing and their dyeing results are basically the same as that by running water. Furthermore, it saves water, reduces dye wastewater discharge, thus achieving the goal of energy saving and emission reduction.

Key words: dye wastewater; recycling use; dyeing; cotton fabric; wool top

DYES AND AUXILIARIES



Preparation of Water-Soluble Polymer Dyes and Its Use in Dyeing of T/C Fabrics

By Yemei LUAN, Meijing CUI, College of Textile, Hebei University of Science and Technology, Shijiazhuang, Hebei

Abstract: A new macromolecular dyes is synthesized from polyvinyl alcohol (PVA) and Reactive Blue KN-R, then subjected to coagulation and sedimentation with sodium sulfate and borax, followed by acetalization with acetaldehyde for the purpose of lowering the water solubility of it. The rubbing fastness, soaping fastness of the fabric pigment dyed with this macromolecular dyes are investigated and synthesis conditions of the macromolecular are selected and optimized by single factor experiment and orthogonal experiment as follows: 2.5h, 75°C and pH=7.0.

Key words: reactive dyes; PVA acetal dyes; water solubility; soaping fastness; pigment dyeing

Editor's Forum

49 Professor Tang's Mall Box

53 Lectures

46 Experience Exchange

51 Thoughts Debate

10 Index to Advertisers

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