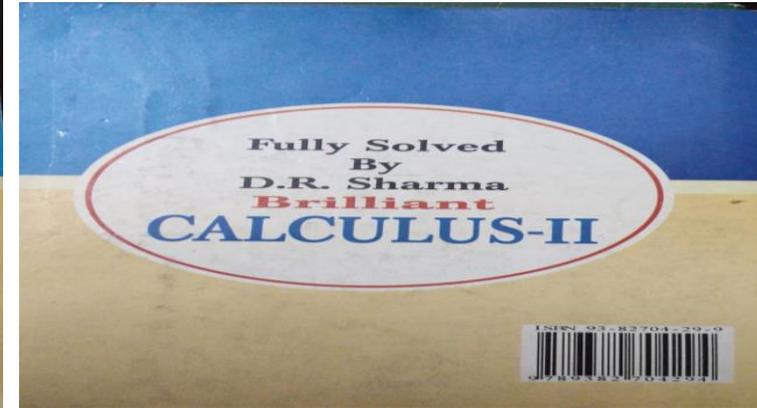
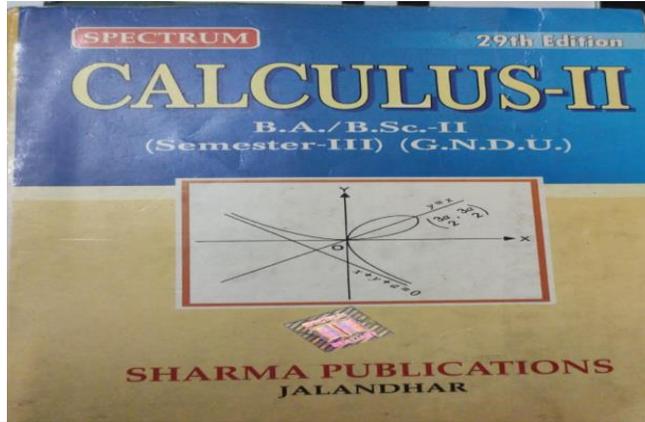
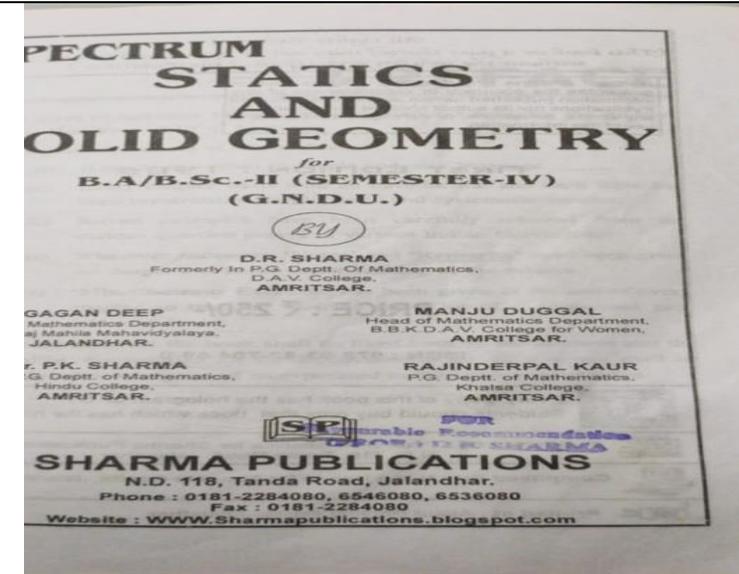
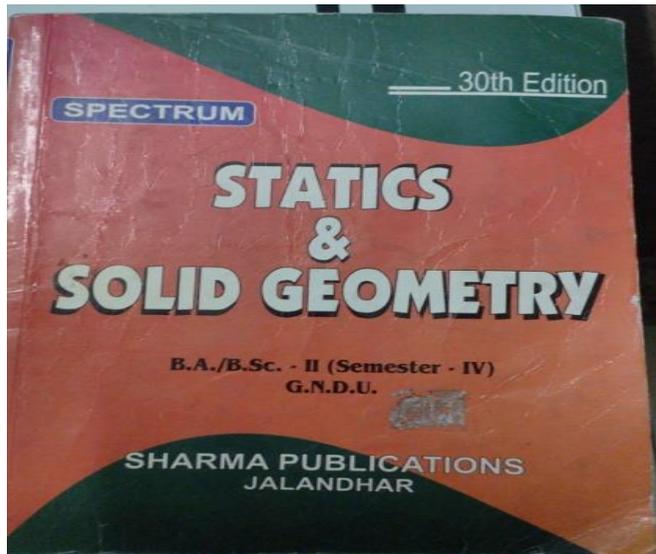


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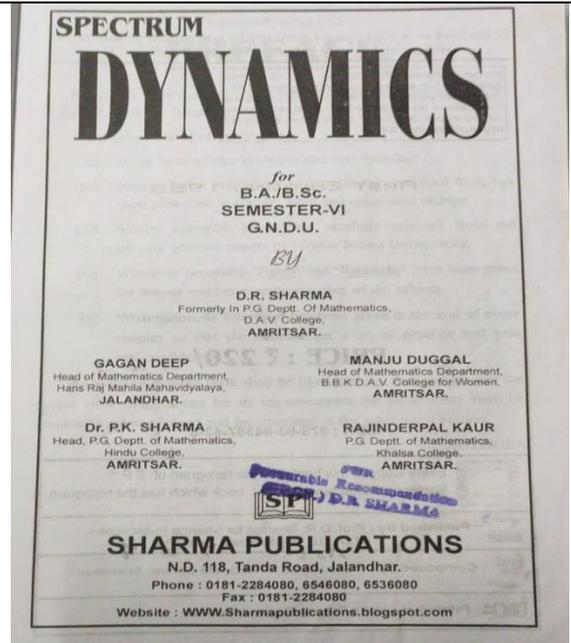
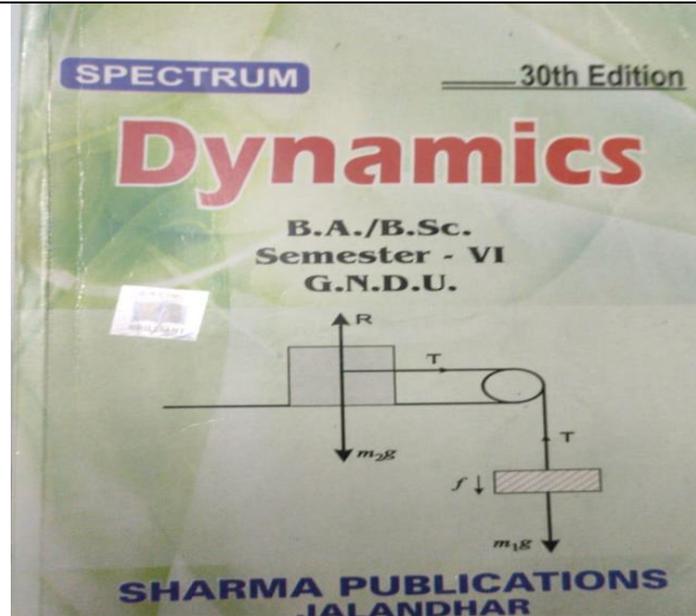
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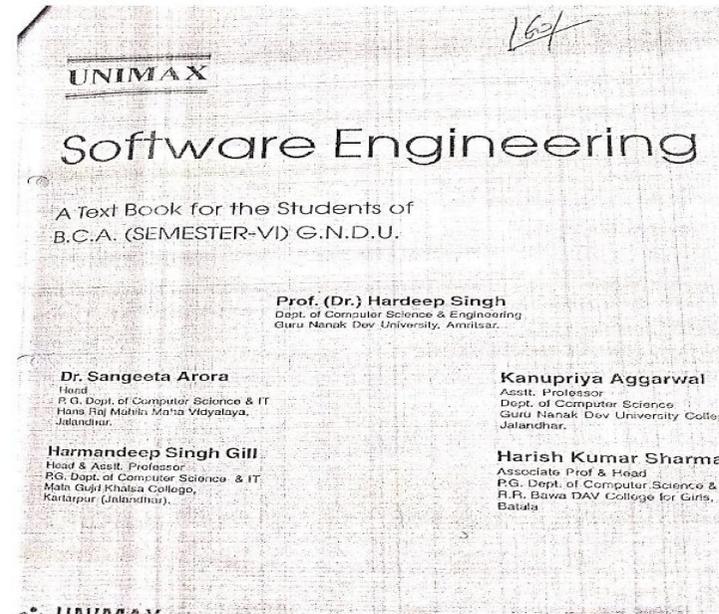
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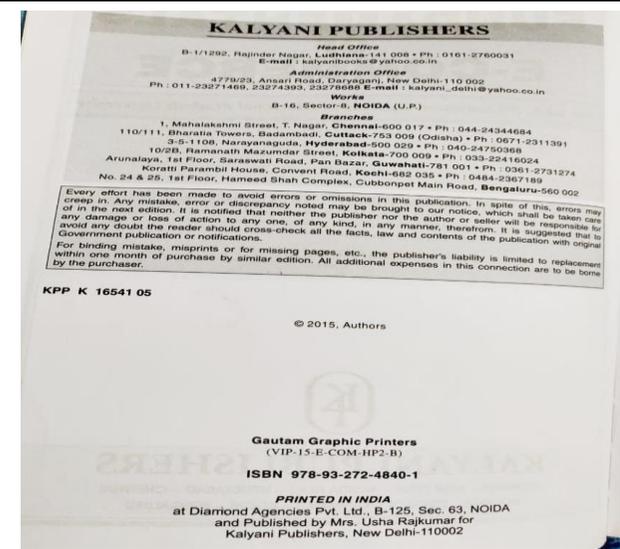
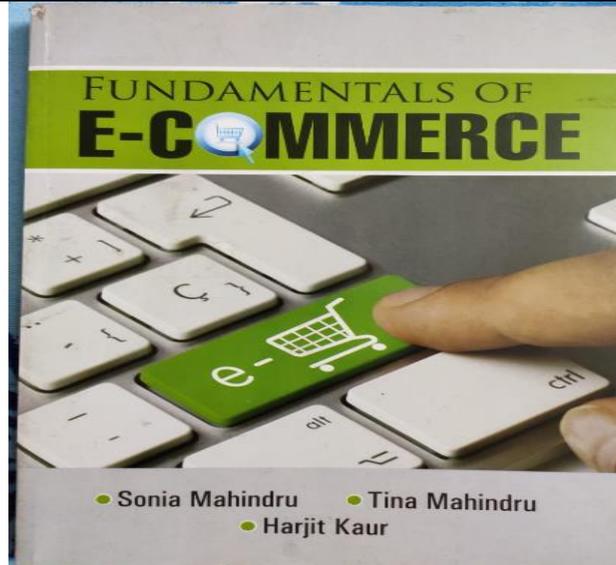
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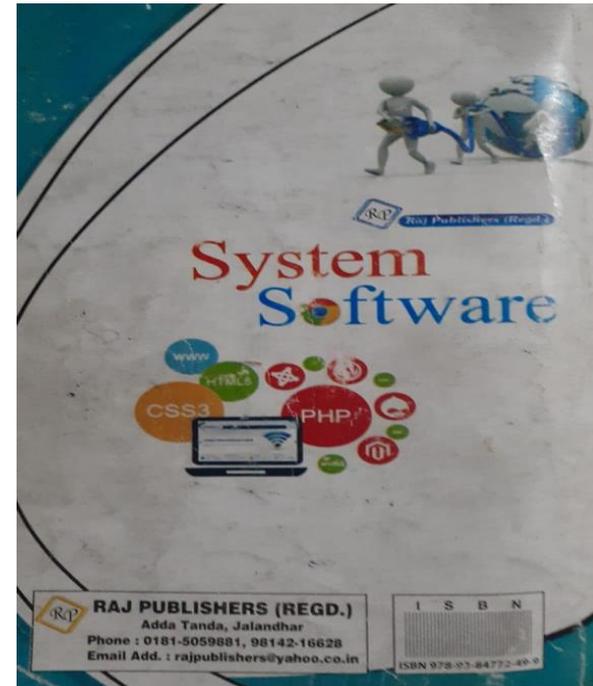
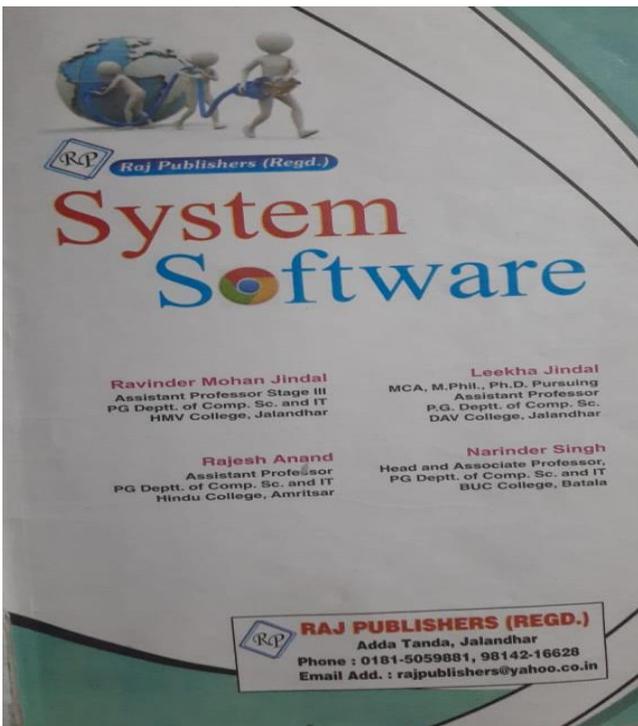
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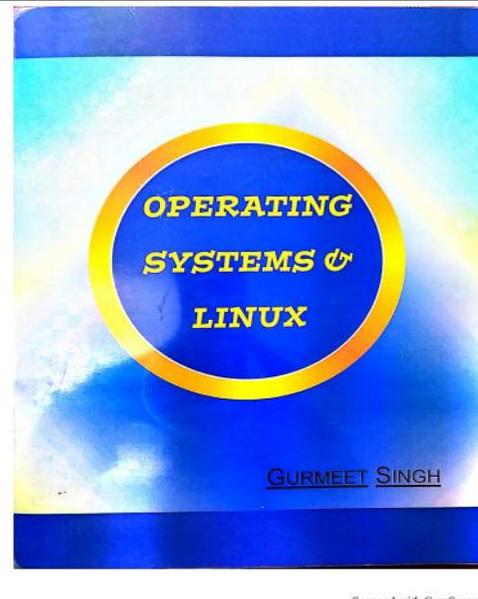
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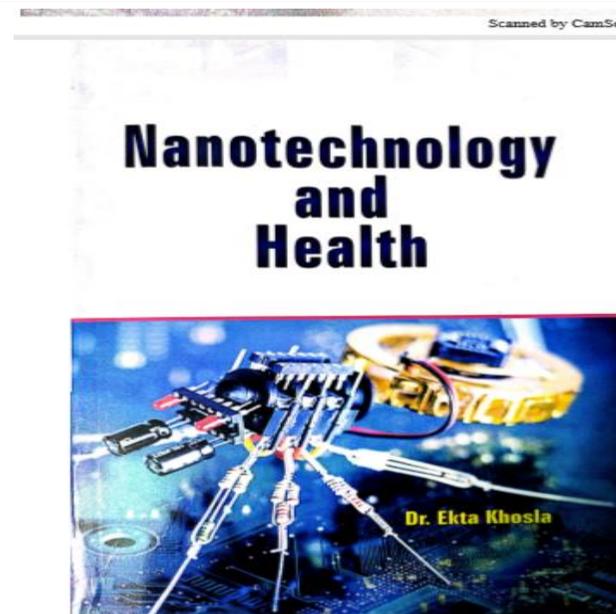
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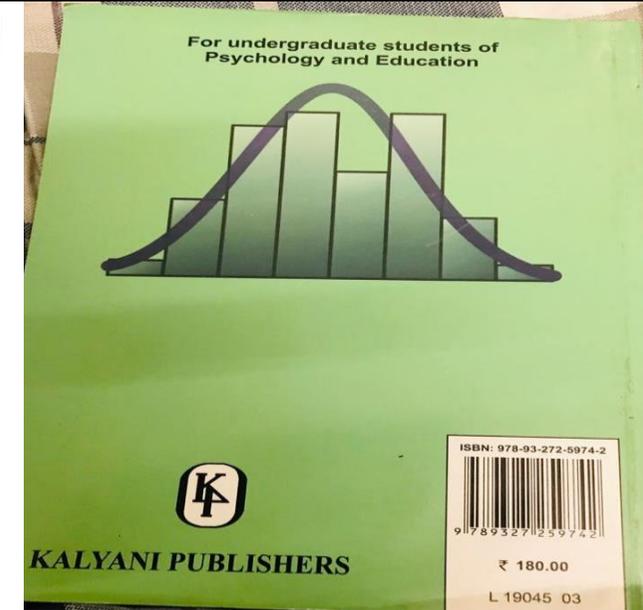
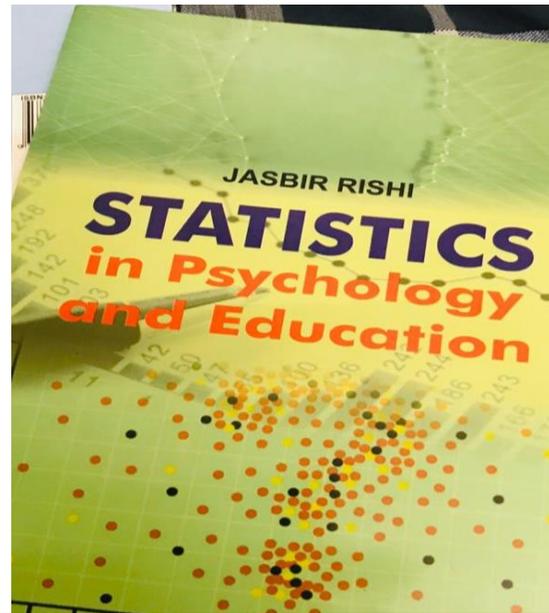
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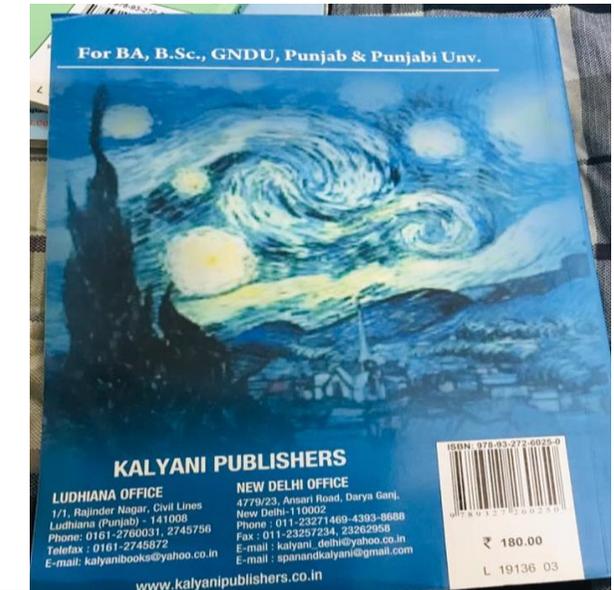
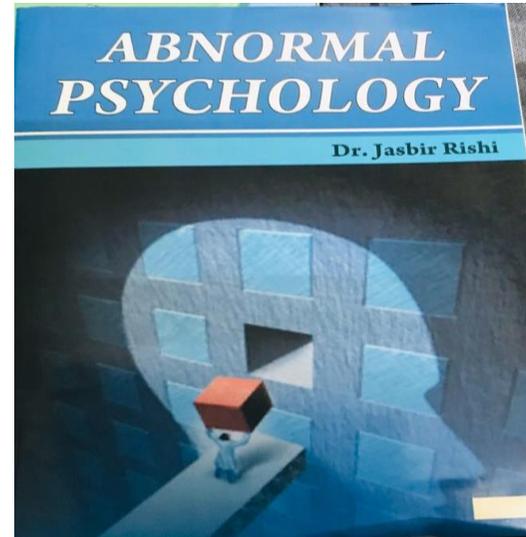
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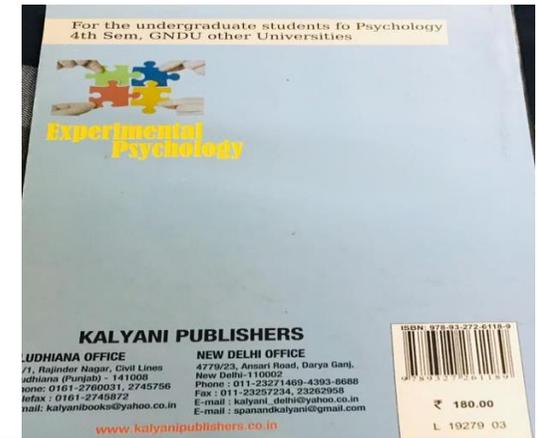
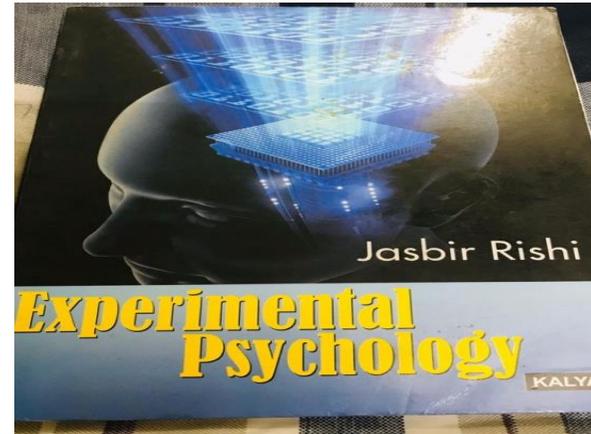
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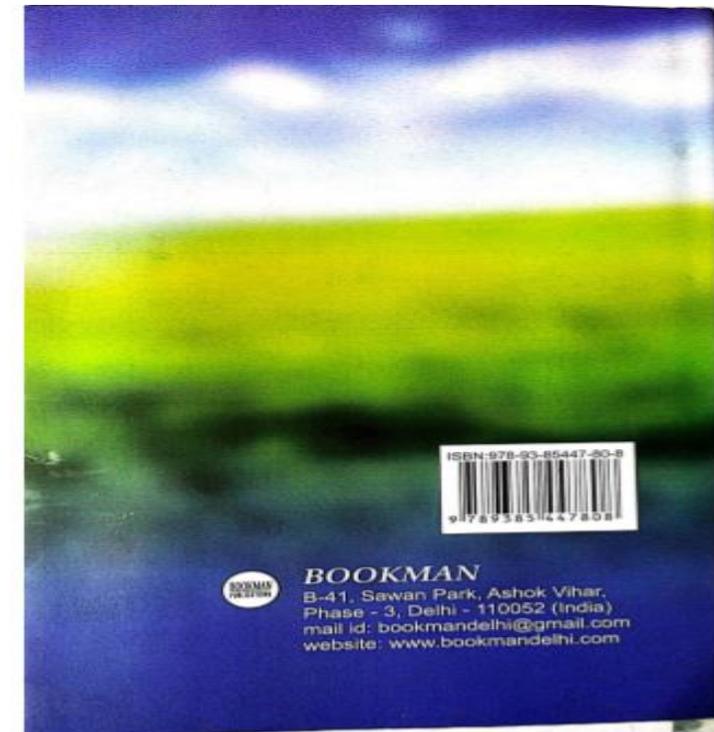
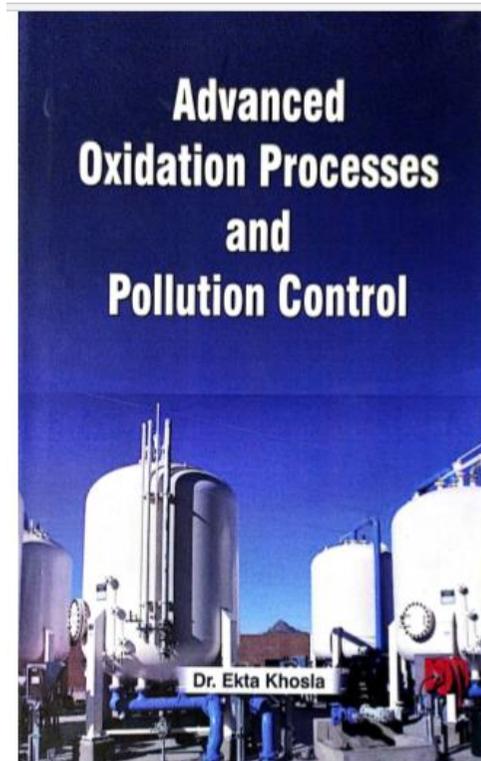


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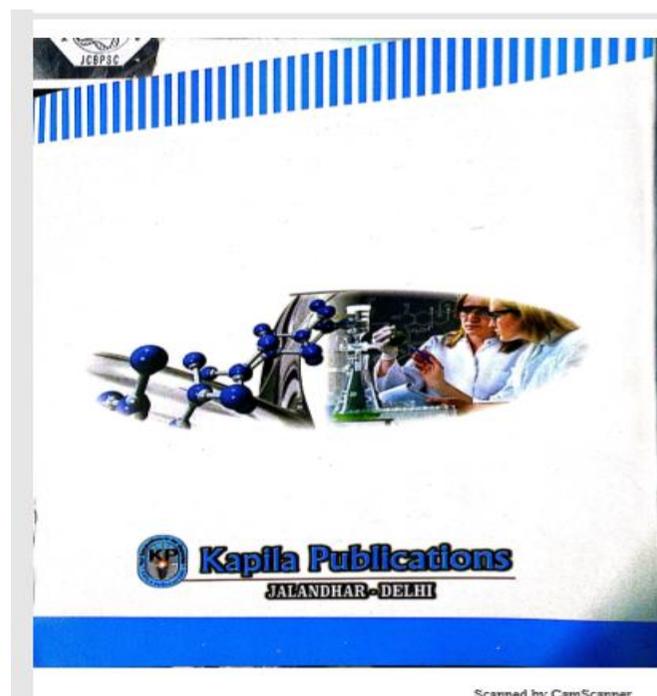
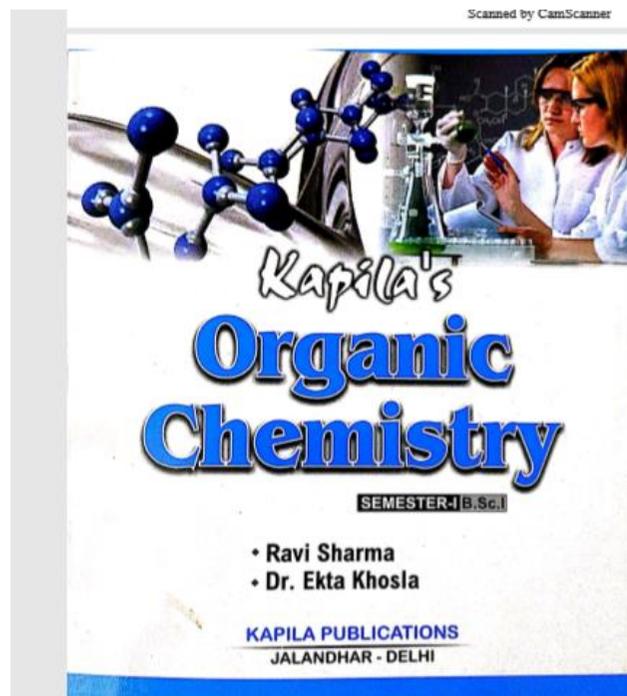
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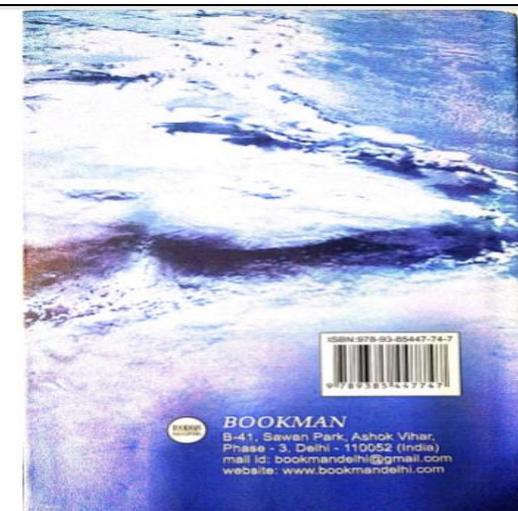
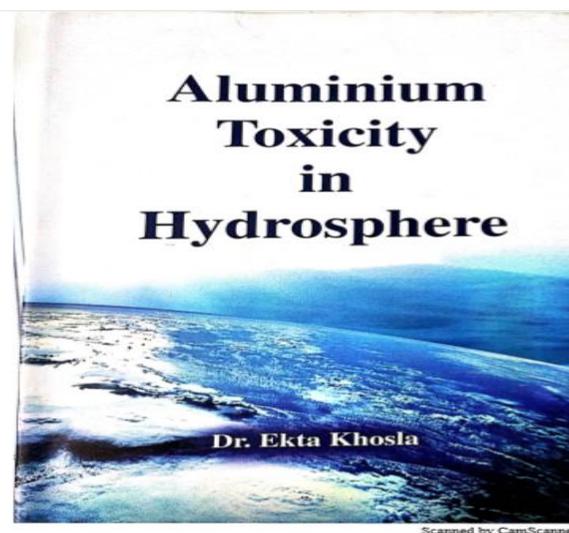
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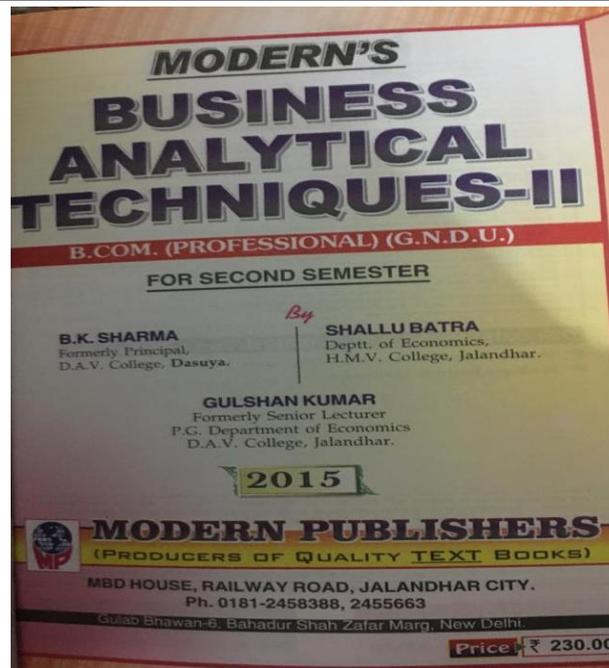


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Kinetic and Thermodynamic study of Adsorption of Ionic Dyes

Paperback – December 9, 2015
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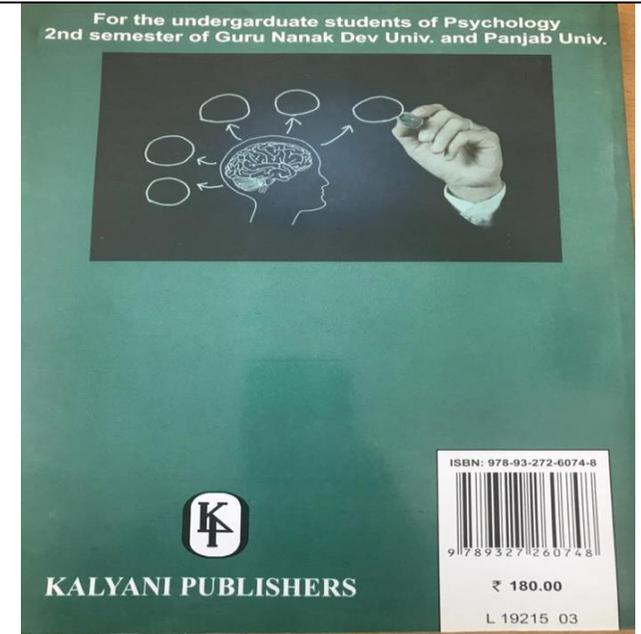
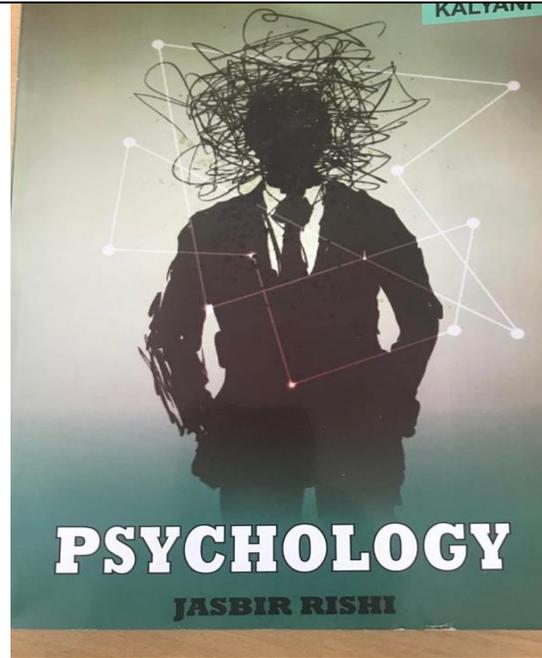
Kinetic and thermodynamic study of removal of ionic dyes on low cost adsorbents and their derivatives. Four ionic dyes belonging to different classes were selected. The locally available low cost materials like raw agricultural wastes, carbonized agricultural wastes, surfactant modified agricultural wastes, surfactant modified agricultural waste carbon, low cost clays and low cost nanoadsorbents were evaluated for the adsorption of dyes from simulated dye effluent containing dyes. The effect of experimental conditions like effect of concentration, pH, temperature and reaction time were optimized. The kinetics and thermodynamics of the adsorption were evaluated by using well known kinetic, equilibrium and isotherm models.

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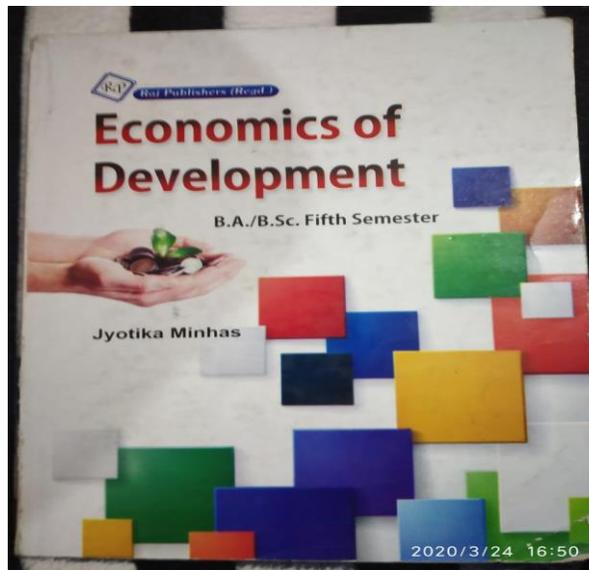
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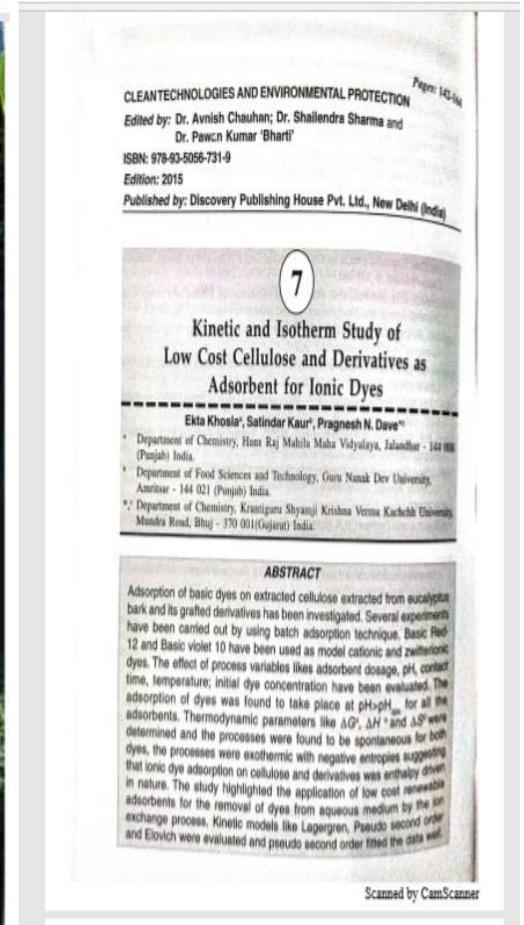
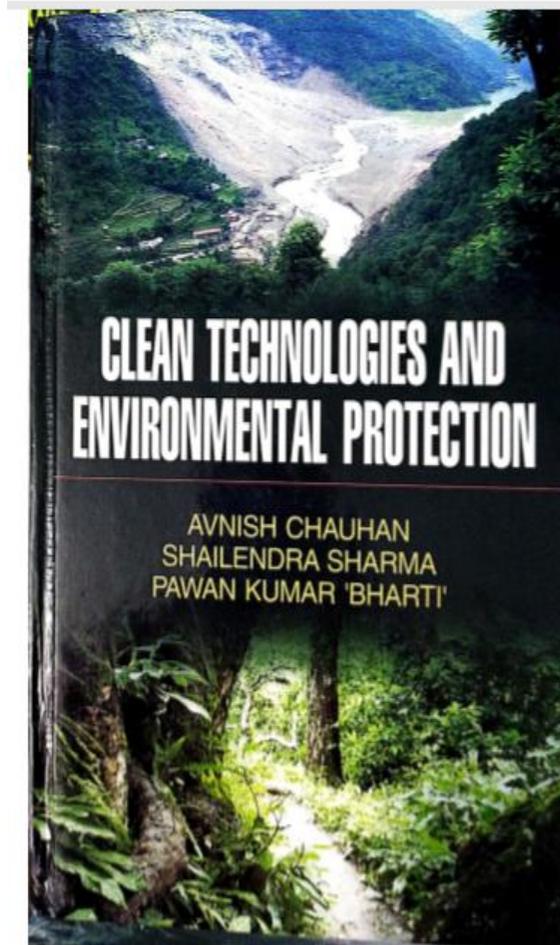


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EXTRACTION OF BINARY MIXTURE OF ACID DYES FROM TEXTILE EFFLUENT USING REVERSE MICELLES OF CATIONIC SURFACTANT

Narinderjit Kaur and Ekta Khosla

Hans Raj Mahila Maha Vidyalaya, India

Sangeeta Sharma

Shaheed Bhagat Singh State Technical Campus, India

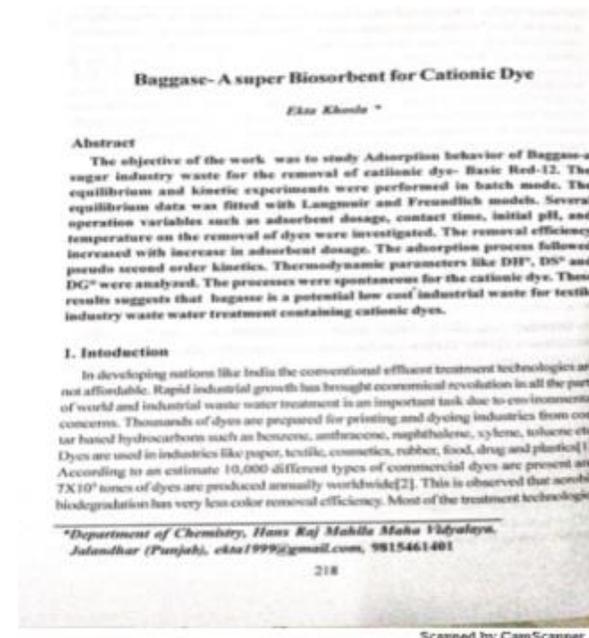
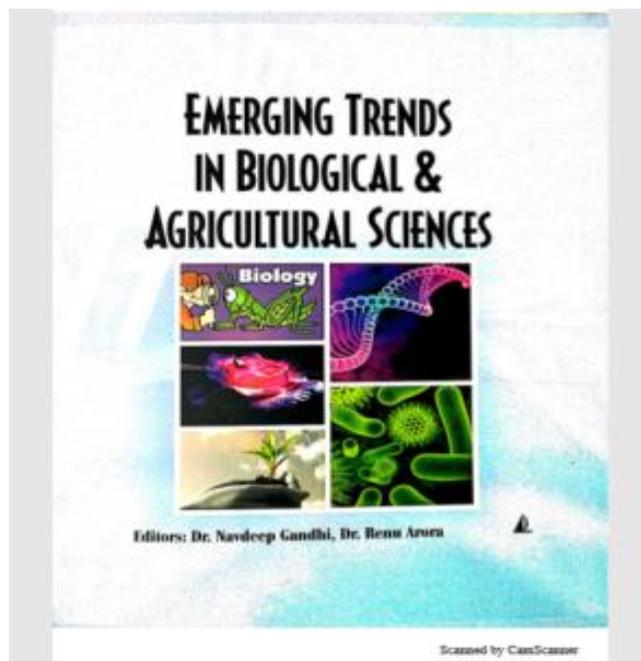
Satinder Kaur

Guru Nanak Dev University, India

Textile effluent containing dyes is the major source of pollution and a great threat to mankind. Their concentration must be reduced to acceptable levels before discharging into environment to avoid health hazards. Among several methods, solvent extraction using reverse micelles is the most promising method in terms of simplicity and efficiency for dye removal from effluent. This study explores the solvent extraction method to remove acid dyes from binary mixture of Acid Orange-7 and Acid Yellow-17 dyes from textile effluent using cationic surfactant and suitable organic solvent. Experiments were conducted by mixing a known quantity of dye in aqueous phase and organic solvent containing cationic surfactant in a simple mixer. Dye molecules get entrapped in core of reverse micelles present in organic phase and it is subsequently separated from aqueous phase which leads to significant removal of dyes. The effects of different parameters such as concentration of surfactant, dye concentration, pH, temperature, salt concentration etc. have been studied in the present work.

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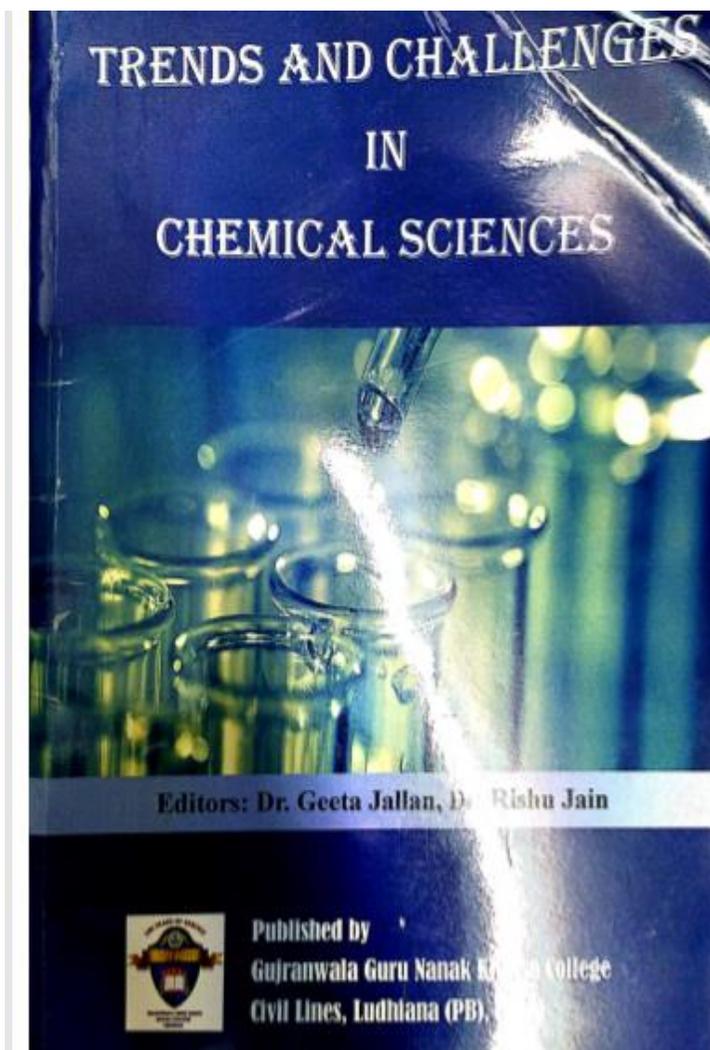
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Extraction of Acid Orange-7 from Waste Water using Reverse Micelles

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EXTRACTION OF ACID ORANGE-7 FROM WASTEWATER USING REVERSE MICELLES

Narinderjit Kaur

Department of Chemistry, Kanya Maha Vidyalaya, Jalandhar, Punjab, India

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Department of Applied Sciences and Humanities, Shaheed Bhagat Singh State Technical Campus, Ferozpur, Punjab, India

Ekta Khosla

Department of Chemistry, Hans Raj Maha Vidyalaya, Jalandhar, Punjab, India

Abstract

One of the major problems faced by the textile industry is the removal of color from textile and dye-house wastewater. These industries are responsible for releasing highly contaminated colored effluent leading to intense water pollution. In this paper, solvent extraction method was explored to remove anionic dye Acid Orange-7 (AO-7) from aqueous solution using reverse micelles of cationic surfactants HTAB (hexadecyltrimethyl ammonium bromide) in polar solvent isoamyl alcohol and their comparison was also studied. The removal trend of the dye from aqueous phase was studied with different concentrations of dye, surfactant concentration, pH, salt concentration, temperature etc.

Keywords: acid dyes, solvent extraction, reverse micelles, cationic surfactants

Introduction

Textile industries are facing number of complex environmental problems, due to substantial amount of dyes released in the wastewater. The development of textile industry and improvement of human life has led to high demand for dyes. In the textile industry, the largest volume of water is used mainly for dyeing, fixing and washing process. The presence of even small amount of dye in water is highly visible and intolerable

This paper will present the application of reverse micelles of cationic surfactant (HTAB) in removing Acid Orange-7 (AO-7) dye from simulated textile effluent by solvent extraction process. Several parameters such as effect of equilibration time, pH of solution, surfactant concentration and initial dye concentration were studied.

Materials and Methods

Materials

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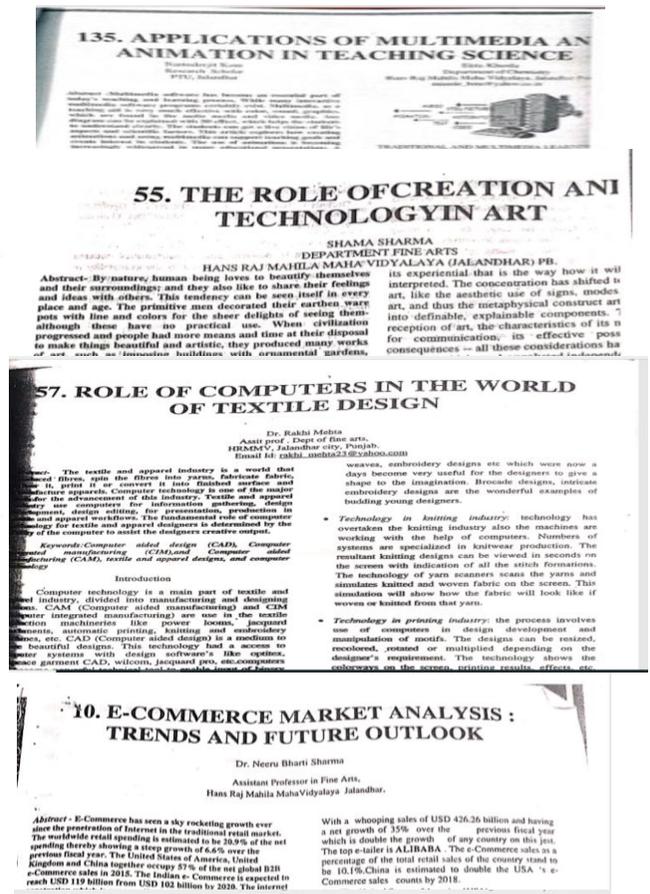
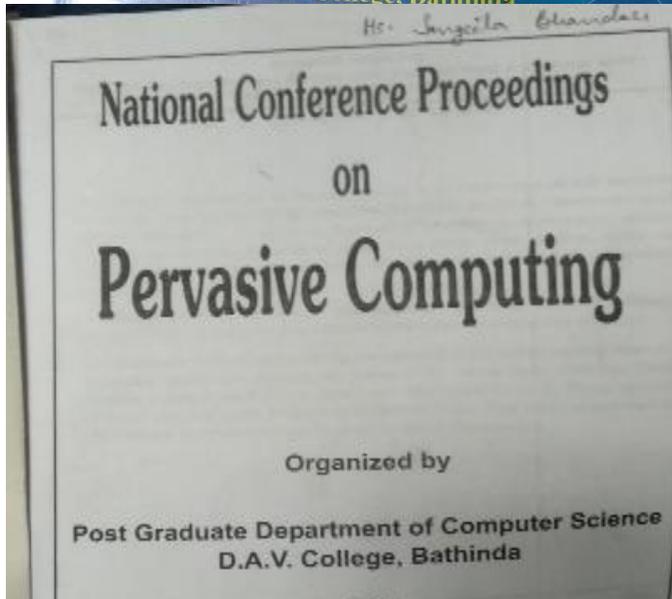
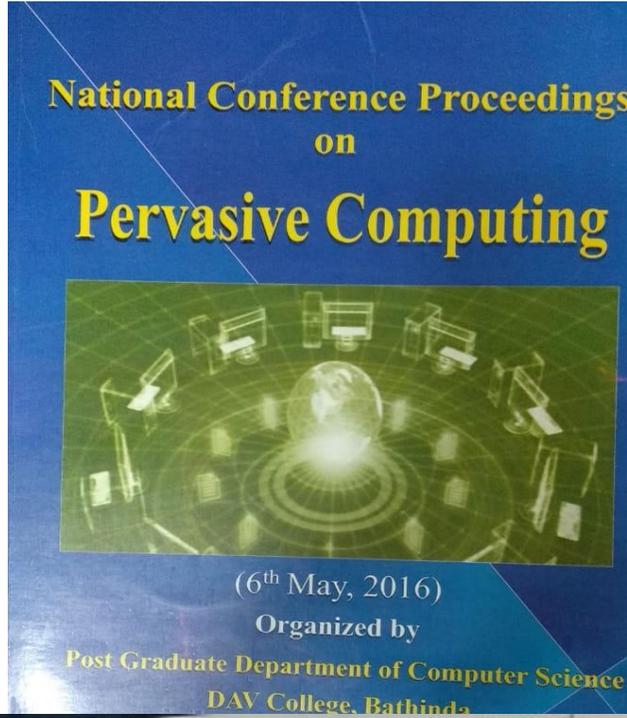
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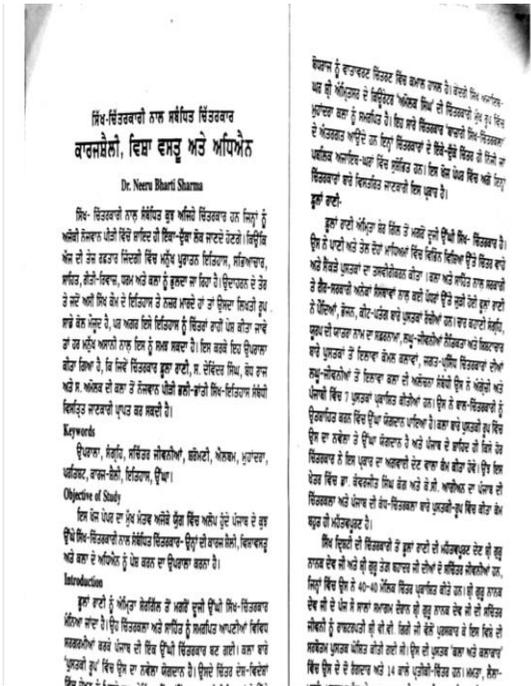
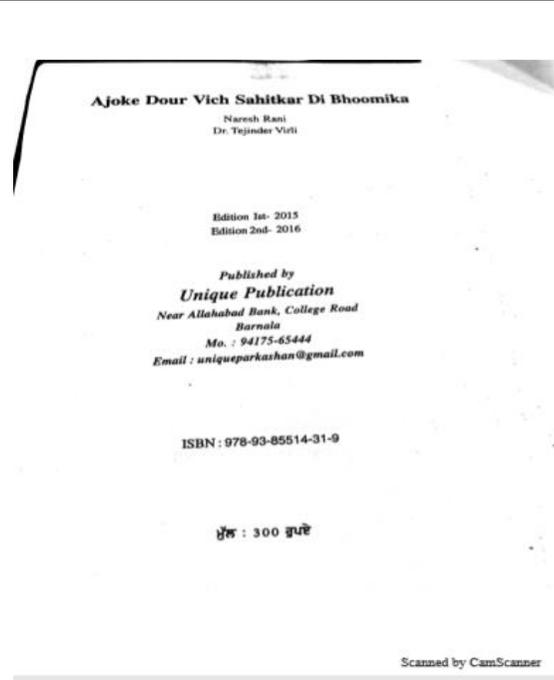
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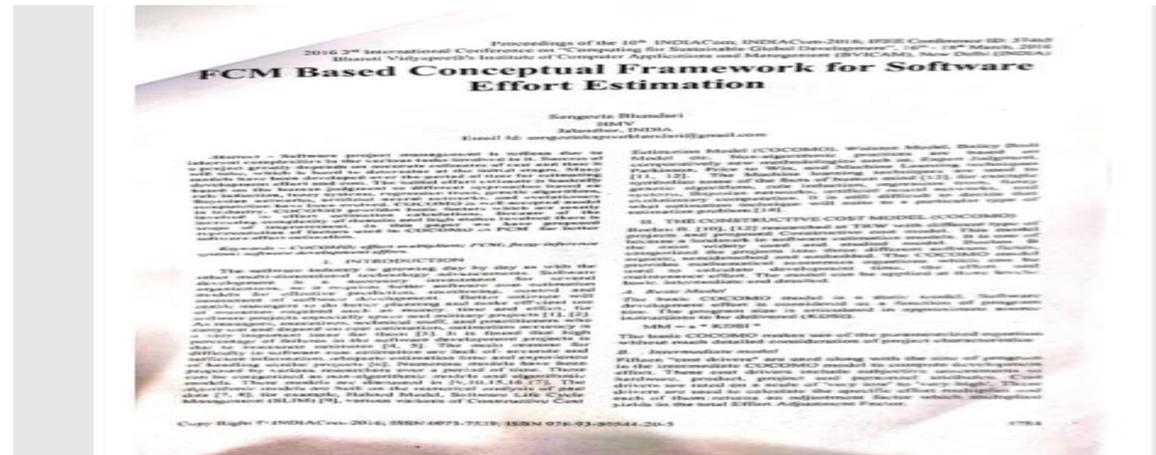
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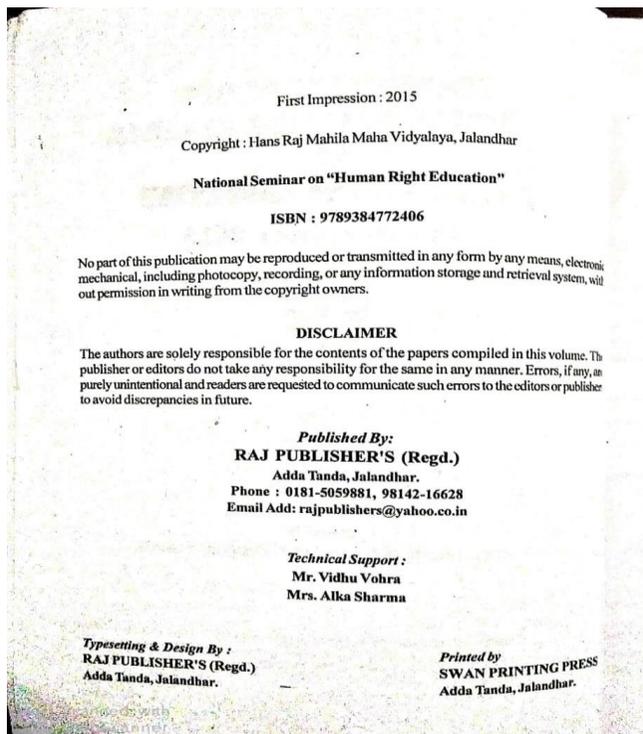
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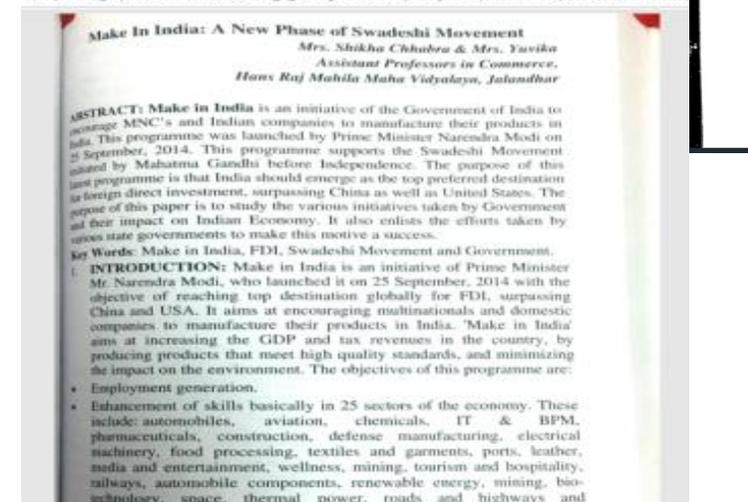
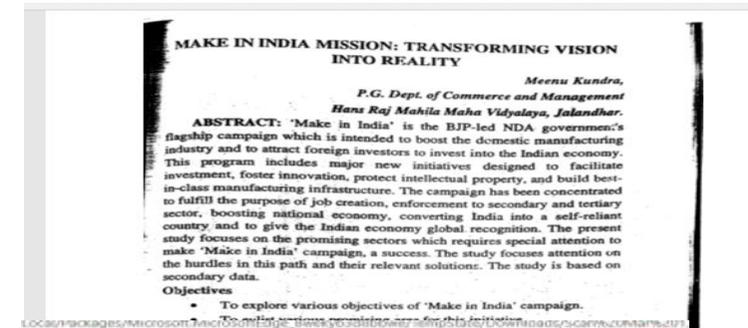
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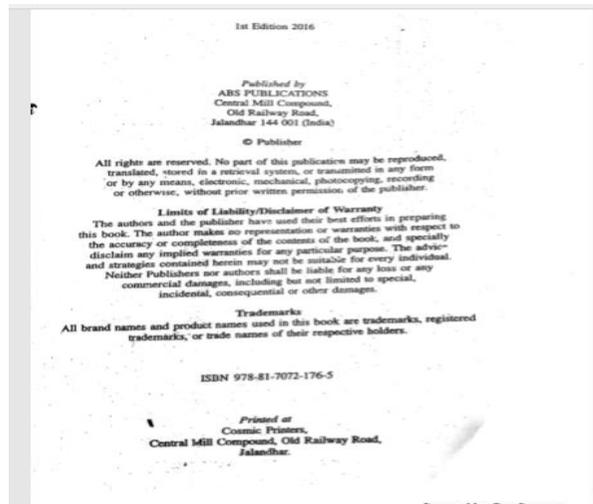
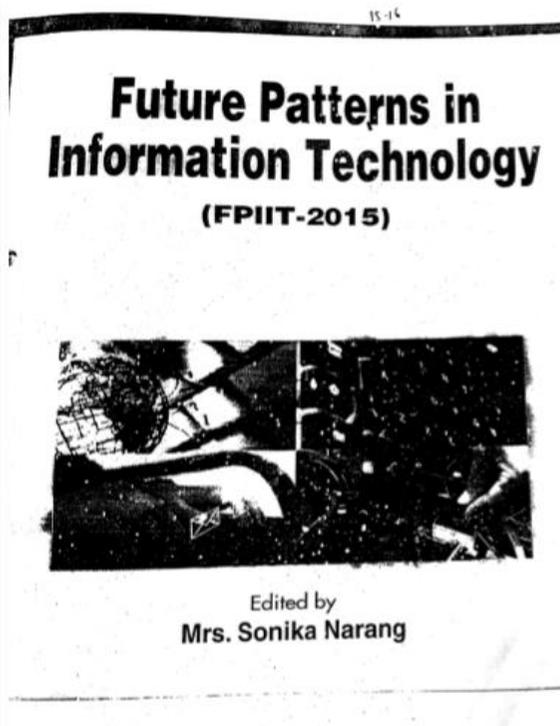
Digital India Mission- A Step towards Digital Literacy

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DIGITAL INDIA MISSION – A STEP TOWARDS DIGITAL LITERACY

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ABSTRACT

Digital India mission is launched to transform India into a knowledge economy offering world-class services at the click of a mouse and will be implemented in a phased manner. The government hopes that Rs 1.13-lakh crore project, will transform India into a connected economy and also attract investment in electronics manufacturing, create millions of jobs and support trade. The programme includes projects that aim to ensure that government services are made available to citizens electronically and people would get the benefit of the latest information and communication technology. The scheme will be monitored and administered by the Digital India Advisory group which will be chaired by the Ministry of Communications and IT. This paper focuses on digital India mission undertaken by government of India, its vision, nine pillars as base, institutional mechanism and government initiatives to make this mission a success. To achieve the success of this giant project, the investment commitments from big tycoons of IT and communication sector, within India and abroad have also been ensured, to transform India into digitally empowered nation. This paper is based on secondary data

OBJECTIVES OF THE PAPER

- To throw light on the digital India project undertaken by government of India.
- To enlist the nine important pillars to make digital India programme, a success.
- To bring on paper, the institutional mechanism of

RESEARCH METHODOLOGY

Data for this paper has been collected entirely secondary sources. Various research papers, wet and articles have been referred for the purpose of collecting information. Data obtained during the process has been presented in an understandable and simple manner.

INTRODUCTION

P.M. Narendra Modi launched the much awaited 'Digital India' programme in order to create a participative, transparent and responsive government. This initiative of Government of India aims to improve online infrastructure and Internet connectivity, launched on July 1, 2015 by Prime Minister Narendra Modi at Indira Gandhi Indoor Stadium in the national capital. This programme includes plans to connect rural areas with high-speed internet networks. With the launch of Digital India programme, the government is taking a step forward to transform the country into a digitally empowered knowledge economy. It will be an inter-ministerial initiative where all ministries and departments will offer their own services as Healthcare, Education, Judicial, etc. to the people. This project is one among the top priority projects of the Modi Administration.

WHAT IS DIGITAL INDIA INITIATIVE?

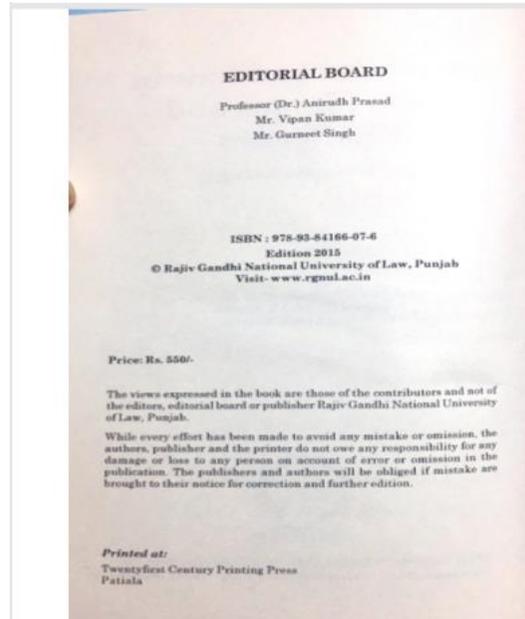
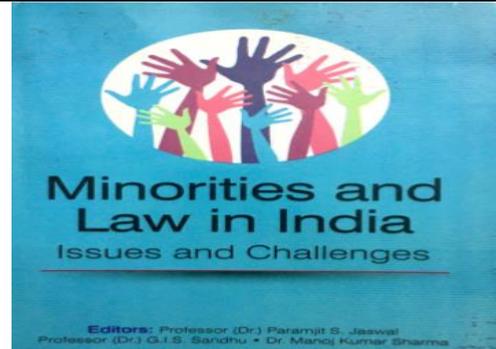
Digital India is a programme to transform India

58

Mrs. Urvashi

Protection of Minorities in India : A Politico -Legal Analysis

Minorities and Law in India-Issues and Challenges



10

PROTECTION OF MINORITIES IN INDIA: A
POLITICO-LEGAL ANALYSIS

Prof. (Dr.) Subhash Sharma* & Urvashi Sharma**

Introduction

Ever since the dawn of independence, minorities have been in the centre of controversies and socio-political concern in Indian polity. India being a unity in diversity in its religio-linguistic sense, we have been boasting of it as a unique feature of Indian federation. However, within it have been every now and then surfacing the cracks of disharmony, discriminations, within minorities or intra-minorities. Even there are consequences of appeasing protection in the shape of demands from the majority communities for an even and equal protection. It remains a fact, therefore, that the required welding of minorities in the Indian social setting has not been achieved as was the objective of our Constitutional goals and its provisions for the minorities. Having nearly seven long decades past after independence and the beginning of our conscious efforts to achieve a perfect social balance and harmony amongst all social divisions in the Indian society – may be that of religion, language, caste, colour, geography and even of economic status; it is, therefore, desirable that an analysis be made as to why the slogans by Muslims to join Pakistan or asking them to go to Pakistan if they 'don't behave like the citizens of Indian National State', Christians crime hoarse of attacks on their dignity, identity and physical bodies, Sikhs continuing to raise a demand of respectable identity for

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Foreign Direct Investment in Retail Sector in India

Chapter Published in Proceedings Published after UGC Sponsored National Seminar on 'Future of Retailing in India'

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Foreign Direct Investment in Retail Sector in India

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Abstract

Retail industry in India is one of the sunrise sectors possessing huge growth potential. The recent reforms relating to foreign direct investment (FDI) in retail sector have brought about a mixed response from different sections of society including domestic retailers as well as buyers. Although the reforms in retail sector are expected to have adverse impact on the domestic retailers in the short run, the negative consequences are expected to weaken over the passage of time. FDI in retail will help in overcoming the problem of lack of experienced, trained and competent manpower. It will prove to be extremely beneficial to customers as it reduces the problem of adulteration, irregularities in weighing and substandard quality of goods. The gradual and systematic entry of multinational corporations in retail would bring about three crucial changes viz. latest technology, better transparency in dealings and best consumer-friendly practices in the long run. The present paper presents an overview of the retail trade in India in the wake of the country's new policy that will allow foreign capital in multi-brand retailing and single-brand retailing. It examines various advantages and disadvantages of foreign direct investment in the retail sector.

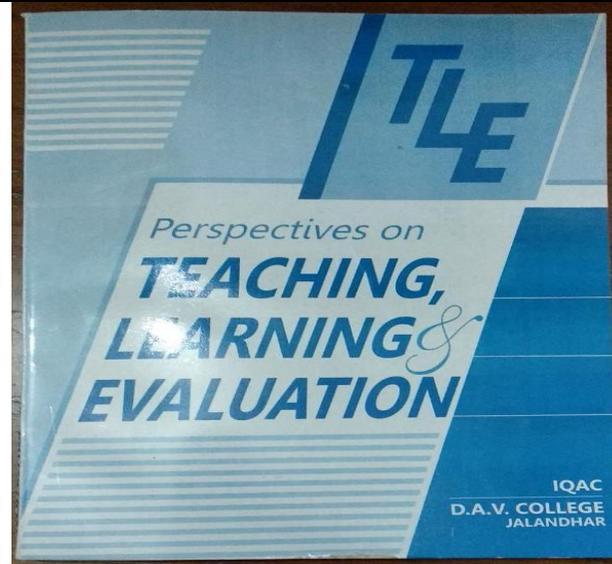
Keywords: Foreign direct investment, Retail sector, Single-brand retailing, Multi-brand retailing, SWOT analysis, India.

Introduction

Foreign direct investment is an essential source of international capital flow which enables the investors of one country to directly invest their funds in another country and acquire the ownership and management of assets and exercise control over production, distribution, employment and effective decision making. In a broad sense, foreign direct investment constitutes a flow of capital, expertise and technology into the host country. Formally, it is defined as "an investment made to acquire lasting interest in enterprises

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