Criterion 3

Research, Innovations and Extension

Key Indicator 3.3	**Research Publication and Awards**

3.3.2. Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years

HARINATH NIVRUTTI MORE

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3.3- Research Publication and Awards

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Sr. No	Particulars	Page No
3.3.2	Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five years	1-40

3.3.2.1. Total number of books and chapters in edited volumes/books published and papers in national/ international conference proceedings year wise during last five years

Year	2022-23	2021-22	2021-20	2019-20	2018-19
Number	10	09	4	4	5

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3.3.2 Number of books and chapters in edited volumes/books published and papers published in national/ international conference proceedings per teacher during last five year

Sl. No.	Name of the teacher	Title of the book/chapters published	National / International	Calendar Year of publication	Name of the publisher	Link
1.	T. V. Chavan	Administration of Nanovaccines By Transdermal Drug Delivery System - Current And Future Perspectives	International	2023	South Asian Publication	http://saap.org.in/payment?bookid=31
2.	F. A. Tamboli	Pharmaceutics	National	2023	Lierature Light	https://literatureslight.com/press-release-pharmaceutics/
3.	A. J. Shinde, H. N. More, R. J. Jarag	Diclofenac Potassium Tablet for Colon Targeting: Formulation	International	2023	Lamberts Academic Publication	https://www.amazon.co.uk/Diclofenac-Potassium-Tablet-Colon-Targeting/dp/6206181219
4.	P. B. Choudhari	In vitro anticancer activity gallic acid nanoparticles on colon cancer cell colo 205In The	International	2023	Nova Publishing	https://novapublishers.com/shop/the-chemistry-of-gallic-acid-and-its-role-in-health-and-disease/

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		Chemistry of Gallic Acid and Its Role in Health and Disease				
5.	A. A. Hajare	Research Methodology and Biostatistics	National	2023	Nirali Publications	https://pragationline.com/research-methodology-and-biostatistics-second-sy-year-m-pharm-semester-3-2/
6.	H. N. More	Mannich Bases of Thiosemicarbazide: The Mutual Prodrugs as Anti-Infective Agents	International	2023	BP International	http://eprint.subtopublish.com/id/eprint/2878/
7.	M .S. Bhatia	Synthesis of Glycoconjugates in Potentiating Pharmacological and Pharmaceutical Activity	International	2023	Intech open	https://www.intechopen.com/chapters/85592
8.	N R Jadhav	Advanced hydrogel-based platform for ocular drug delivery	International	2023	Elsevier Publications	https://www.sciencedirect.com/science/article/abs/pii/B9780443152641000117
9.	A. A. Hajare	Moden Pharmaceutices	National	2023	Nirali Publications	https://bookstation.in/products/9788119117345
10.	D V Mahuli	Pharmaceutical Technology And Process	National	2023	AGPH Books Publication	https://literatureslight.com/press-release-pharmaceutics/

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11.	A. A. Hajare	A text book of Pharma Marketing Management	National	2022	Career Publications	https://www.amazon.in/Textbook-Pharma-Marketing-Management-Hajare/dp/B09XXBP79D
12.	A. J. Shinde, H. N. More	Design And Development of Mucoadhesive Microspheres	International	2022	Lamberts Academic Publication	https://www.amazon.com.au/DESIGN-DEVELOPMENT-MUCOADHESIVE-MICROSPHERES/dp/6200325898
13.	A. J. Shinde, H. N. More	Formulation And Evaluation Of Expandable Gastroretentive Tablet	International	2022	Lamberts Academic Publication	https://www.amazon.com/FORMULATION-EVALUATION-EXPANDABLE-GASTRORETENTIVE-TABLET/dp/6200276544
14.	H. N. More, F. A. Tamboli	Practical Handbook of Herbal Drug Technology	National	2022	Pritam Publications	https://www.pritampublications.com/view-products/76/Pharmacy/B-Pharm-6th-Semester-Practical-Books/Practical-Handbook-of-Herbal-Drug-Technology
15.	A. J. Shinde, H. N. More, F. A.	Validation of Spectrophotometric Method	International	2022	Lamberts Academic Publication	https://www.amazon.de/-/en/Anilkumar-

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	Tamboli	for Simultaneous estimation in combined dosage form				Shinde/dp/620549891X
16.	H. N. More, F. A. Tamboli	Ayurvedic remedies of tubercuosis,in Ayurvedic remedies for candidiasis and tuberculosis	National	2022	Academic Decipher Press, Mumbai	https://drive.google.com/file/d/1o-lfIMacw9i4IH0fDneviZoaZt0XD2dR/view?pli=1
17.	H. N. More, F. A. Tamboli	Ayurvedic remedies for Adenovirus diseases in Ayurvedic remedies of diseases of microbial origin	National	2022	Academic Decipher Press, Mumbai	https://drive.google.com/file/d/1VDA5OVW7MWA4hWi7qVmU5YepYeBAWlz8/view
18.	N R Jadhav	Polymeric Nanoplatforms for the Targeted Treatment of Prostate Cancer	International	2022	SpringerLink	https://link.springer.com/chapter/10.1007/978-3-031-14848-4_16
19.	D A Bhagwat	Self-nano Emulsifying Formulations: An Encouraging Approach for Bioavailability Enhancement and Future Perspective	International	2022	Intech open	https://www.intechopen.com/chapters/84978
20.	A. A. Hajare	Pharmaceutical Regulatory Science	National	2021	Nirali Publications	https://bookstation.in/products/9789390596300

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21.	A. A. Hajare	Pharmaceutical Product Development	National	2021	Nirali Publications	https://bookstation.in/products/9789354510229
22.	A. A. Hajare	Physical Pharmaceutics-I	National	2021	Nirali Publications	https://bookstation.in/products/9789388194174?_pos=3&_sid=b6e42ad8e&_ss=r
23.	N. R. Jadhav	Textbook of Nanobiology, Nanoscience and Nanotechnology	National	2021	Kindle Publications	https://www.amazon.com/Textbook-Nanobiology-Nanoscience-Nanotechnology-Namdeo/dp/B09HG2RW6V
24.	A. A. Hajare	Biostatistics and Research Methodology	National	2020	Nirali Publications	https://bookstation.in/products/9789390506163
25.	A. A. Hajare	Community Pharmacy and Management	National	2020	Nirali Publications	https://bookstation.in/products/9789354517075
26.	A. A. Hajare	Industrial Pharmacy-II	National	2020	Nirali Publications	https://bookstation.in/products/9789389944860?variant=44084754219300
27.	A. J. Shinde, H. N. More	Development of lornxicam microsponges gel for topical application	International	2020	Lamberts Academic Publication	https://www.amazon.in/Development-Lornxicam-Microsponges-Topical-

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						Application/dp/6202519193
28.	P.B .Choudhari, N. M. Bhatia, M. S. Bhatia	Characterization of pharmaceutical nanocarriers: in vitro and in vivo studies in Nanomaterials for Drug Delivery and Therapy	International	2019	Elsevier Publications	https://www.sciencedirect.com/science/article/abs/pii/B9780128165058000163
29.	A. A. Hajare	Practical Industrial Pharmacy -I	National	2019	Nirali Publications	https://www.kopykitab.com/Sample-PDF-A-Practical-Book-Of-Industrial-Pharmacy-I-by-Dr-Ashok-A-Hajare-Mr-Sandip-M-Honmane?pdf_url=https://content.kopykitab.com/ebooks/2020/04/49018/sample/sample_49018.pdf&pid=49018
30.	A. J. Shinde, H. N. More	Mucoadhesive Gastroretentive Tablets of Diltiazem Hydrochloride	International	2019	Lamberts Academic Publication	https://www.amazon.co.jp/-/en/Anilkumar-Shinde/dp/6200277354
31.	A. A. Hajare	Industrial Pharmacy-I	National	2019	Nirali Publications	https://bookstation.in/products/9789389533064
32.	A. A. Hajare	Pharmaceutical Engineering	National	2019	Nirali Publications	https://bookstation.in/products/978

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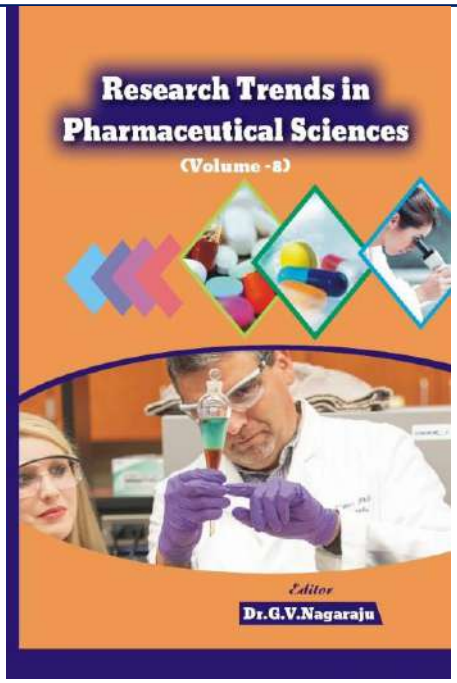

RESEARCH TRENDS IN PHARMACEUTICAL SCIENCES (VOLUME -8)

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Dr. G.V. Nagaraju

SOUTH ASIAN ACADEMIC PUBLICATIONS

ADMINISTRATION OF NANOVACCINES BY TRANSDERMAL DRUG DELIVERY SYSTEM - CURRENT AND FUTURE PERSPECTIVES

Rushikesh B. Katkar*
Department of Pharmaceutics
Ashokrao Mane Institute of Pharmaceutical Sciences and Research Kolhapur, Maharashtra, India.

Dr. Abhijeet Shashikant Kulkarni
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Sumit A. Shinde
Department of Pharmaceutical Chemistry
Ashokrao Mane Institute of Pharmaceutical Sciences and Research Kolhapur, Maharashtra, India.

Trishul Vilas Chavan
Department of Pharmaceutical Chemistry
Bharati Vidyapeeth College of Pharmacy, Kolhapur Maharashtra, India.

Abstract:

Nanovaccines have emerged as a promising approach to enhance vaccination strategies, leveraging the power of nanotechnology to improve immune responses and vaccine efficacy. In recent years, the administration

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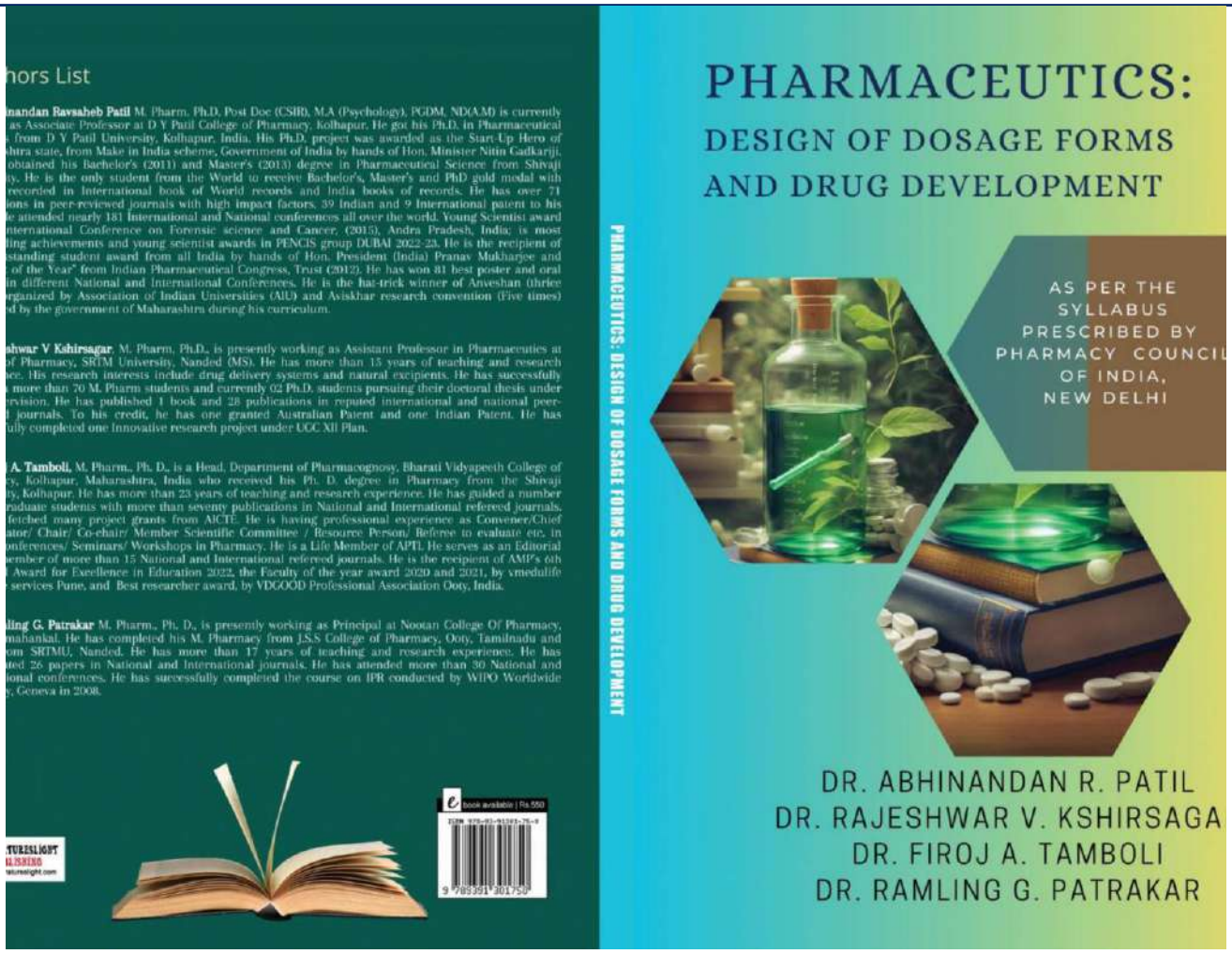

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Anilkumar Shinde
Ravindra Jarag
Harinath More

Diclofenac Potassium Tablet for Colon Targeting: Formulation

Diclofenac Potassium Tablet for Colon Targeting

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The present study was to formulate tablet of Diclofenac potassium using the hydrophilic polymer hydroxy propyl methyl cellulose (HPMC), Hydroxypropyl Cellulose (HPC), Ethyl Cellulose(N22), Cross Povidone and Sodium Starch Glycolate as a superdisintegrants and Instacoat EN super II as a enteric coat to the colone specific tablet. A 33 randomized full factorial design, 3 level and 3 factors were used. The concentration of Hydroxy propyl cellulose (X1), concentration of HPMC K4M (X2) and concentration of Ethyl cellulose (X3) were selected as independent variables. The percentage drug release at 12 hours (Q12), percentage friability and hardness of tablet were selected as dependent variables for optimization study. The core, press coat tablets were compressed by rotatory tablet machine evaluated with different parameters like diameter, thickness, average weight, hardness, friability, kinetic release data. Hardness of tablets was found to be in the range of 7-8 kg/cm2. The enteric coated tablets containing diclofenac potassium released 38.12 % at the end of 12 hrs by in vitro release study.

Dr. Anilkumar J. Shinde, M.Pharm Ph.D he started career in Pune university, Pune as Lecturer in Pharmaceutics & younged in teaching since 1994. Presently he is working as Associate Professor in Pharmaceutics Department at Bharati Vidyapeeth College of Pharmacy, Kolhapur.

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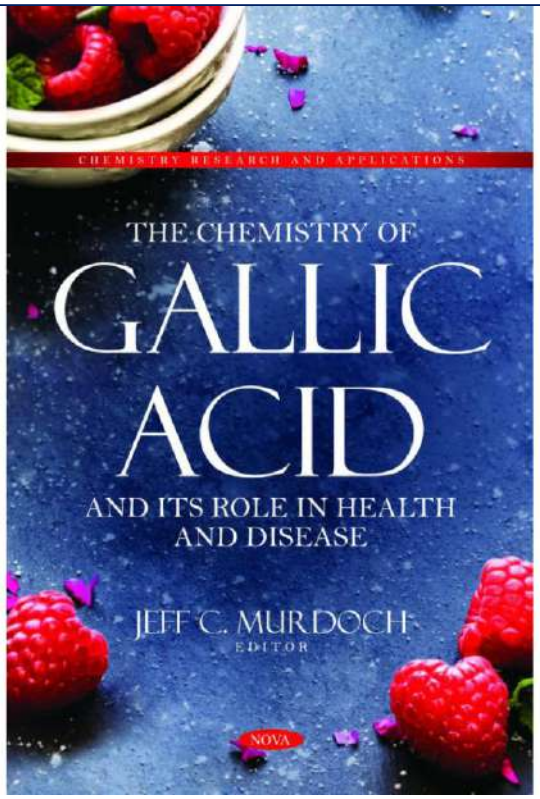

9/18/23, 10:02 AM The Chemistry of Gallic Acid and Its Role in Health and Disease - Nova Science Publishers

Chapter 6. Gallic Acid: A Potential Antidiabetic Agent
Suraj Taribhkar, Venkatesh Kumbhar, Poornima Sankpal and Sachinkumar Patil
Ashokrao Mane College of Pharmacy, Peth-Vadgaon, Kolhapur, Maharashtra, India

Chapter 7. Gallic Acid: A Potential Anti-Tumor Agent
Pranali Pangam, Swapnali Patil, Poornima Sankpal and Sachinkumar Patil
Ashokrao Mane College of Pharmacy, Peth-Vadgaon, Kolhapur, Maharashtra, India

Chapter 8. In Vitro Anticancer Activity Gallic Acid Nanoparticles on Colon Cancer Cell Colo 205
Dr. Poornima Sankpal[1], Dr. Sachinkumar Patil[2], Mr. Pramod B. Patil[2], Rajanikant Ghotane[1], Dr. Prafulla Choudhari[2] and Sanket Rathod[2]
[1]Ashokrao Mane College of Pharmacy, Peth-Vadgaon, Kolhapur, Maharashtra, India
[2]Bharati Vidyapeeth College of Pharmacy, Kolhapur, Maharashtra, India

Chapter 9. Pharmacognosy of Gallic Acid and Its Co-crystals
Sanchay Jyoti Bora[1], PhD, Riju Kakati Sarma[2], PhD, and Purabi Sarmah[3], PhD
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[2]Department of Botany, Pandu College, Pandu, Guwahati, Assam, India
[3]Department of Chemistry, Nalbari College, Nalbari, Assam, India

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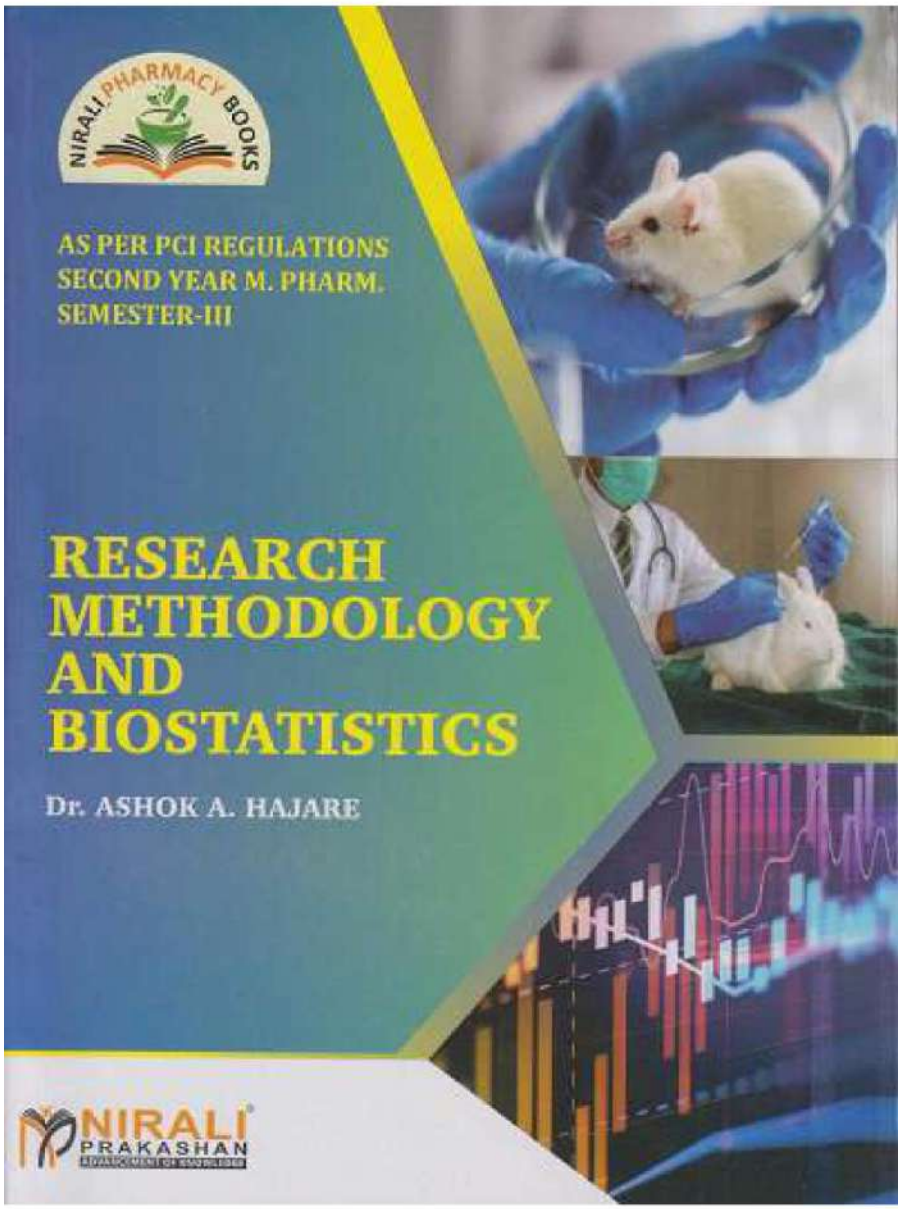

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Novel Aspects on Pharmaceutical Research Vol. 8

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Mannich Bases of Thiosemicarbazide: The Mutual Prodrugs as Anti-Infective Agents

Sachin A. Pishawikar ; Harinath N. More ; Ravindra B. Kumbhar ; Sujeet V. Salokhe

Novel Aspects on Pharmaceutical Research Vol. 8, 21 August 2023, Page 49-61
https://doi.org/10.9734/bpi/naprv/v8/6155A
Published: 2023-08-21

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Abstract

This chapter highlights about Mannich Bases of Thiosemicarbazide. The biological activity of Mannich bases, a structurally heterogeneous class of chemical compounds that are generated from various substrates through the introduction of an aminomethyl function by means of the Mannich reaction, is surveyed, with emphasis on the relationship between structure and biological activity. The mannich base is an end product in the mannich reaction, which is nucleophilic addition reaction of a non-enolizable aldehyde and any primary or secondary amine to produce resonance stabilized imine (iminium ion or imine salt). First variety of mannich bases were synthesized using aldehyde, ketones and secondary amines having aliphatic, aromatic, cyclic and heterocyclic nature using mannich reaction. To create mannich bases of thiosemicarbazide as a mutual prodrug, the synthesized bases were condensed with thiosemicarbazide. Utilizing IR and H-NMR, produced molecules were structurally characterized. Complexity in the reactant's structure causes changes in reaction time, temperature, and end product yield percentage. Screening of compounds for anti-infectivity was performed in the form of anti- microbial activity using *Escherichia Coli (8739) Staphylococcus aureus (25923)*, anti-fungal activity using *Aspergillus niger (16404), Candida albicans (10231)* using BHI (brain heart infusion) broth dilution method and anti-tubercular activity by micro plate Alamar Blue assay (MABA). Structural complexicity plays significant role in time required, temperature conditions and % yield of compounds synthesized.

Keywords: Prodrug; antifungal; antimicrobial; brain heart infusion; mannich bases; thiosemicarbazide

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Synthesis of Glycoconjugates in Potentiating Pharmacological and Pharmaceutical Activity

Submitted: 05 December 2022 , Reviewed: 23 December 2022 , Published: 07 June 2023

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Nanotechnology in Ophthalmology
2023, Pages 305-320

Chapter 19 - Advanced hydrogel-based platform for ocular drug delivery

Sopan N. Nangare [1], Jidnyasa R. Pantwalawalkar [2], Namdeo R. Jadhav [2], Petra O. Nnamani [3], Zamir G. Khan [1], Pravin O. Patil [1], Sanjaykumar B. Bari [1]

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[3] Department of Pharmaceutics, University of Nigeria, Enugu, Nigeria

Available online 21 July 2023, Version of Record 21 July 2023.

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Abstract

Since inception, the physiological barriers that appear in the ophthalmic cavity have made it troublesome to deliver drug molecules. As an outcome, an alternate dosage form for active delivery to the desired target is necessitated. The utilization of hydrogel in the management of eye illnesses is currently piquing the interest of academic researchers. Principally, a polymer-based cross-linked network of aqueous gels provides abundant benefits including better patient compliance, biocompatibility, release control, targeted delivery, and many more. The current book chapter provides an impression of ocular drug delivery, formulation, and therapeutic considerations for hydrogels. Herein, the preference of polymers for hydrogel development based on biocompatibility and biodegradability criteria has been mentioned. Following that, the stimuli-responsive hydrogels—temperature, ions, pH, etc., and nonstimuli-responsive ones have been addressed. Fascinatingly, the formation of hydrogel offers satisfactory viscosity and good mucoadhesion that helps to improve the ocular residence time. Moreover, it shows good transcorneal permeation that overcomes the restrictions of a physiological barrier. In addition, it exhibits no irritation to ocular tissues confirming the biocompatibility and safety of hydrogels for ocular applications. The reported hydrogels for ocular drug delivery offer prolonged release with diverse release kinetics that helps to augment the therapeutic effect of actives. Essentially put, smart hydrogels may effortlessly overcome the limits of traditional dosage forms such as eye drops, ointments, lenses, etc. Consequently, the introduction of hydrogel in an ocular therapeutic delivery system represents a significant advancement in the biomedical discipline. This book

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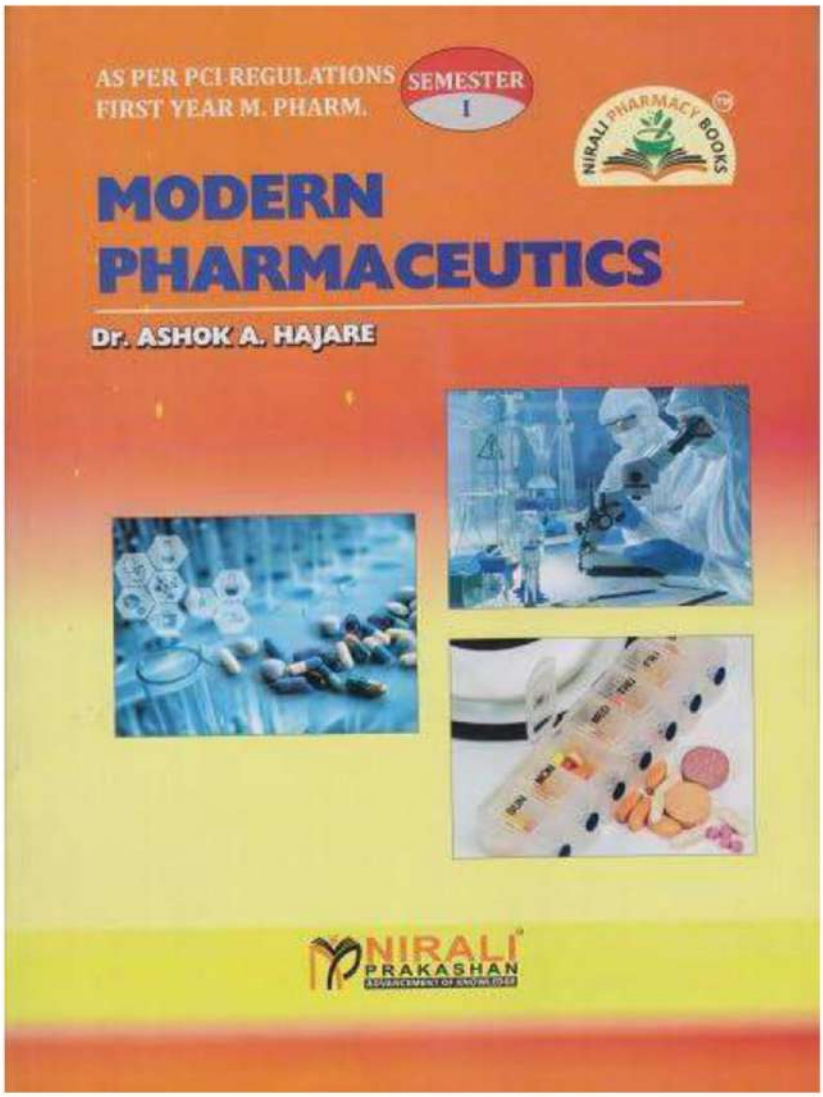

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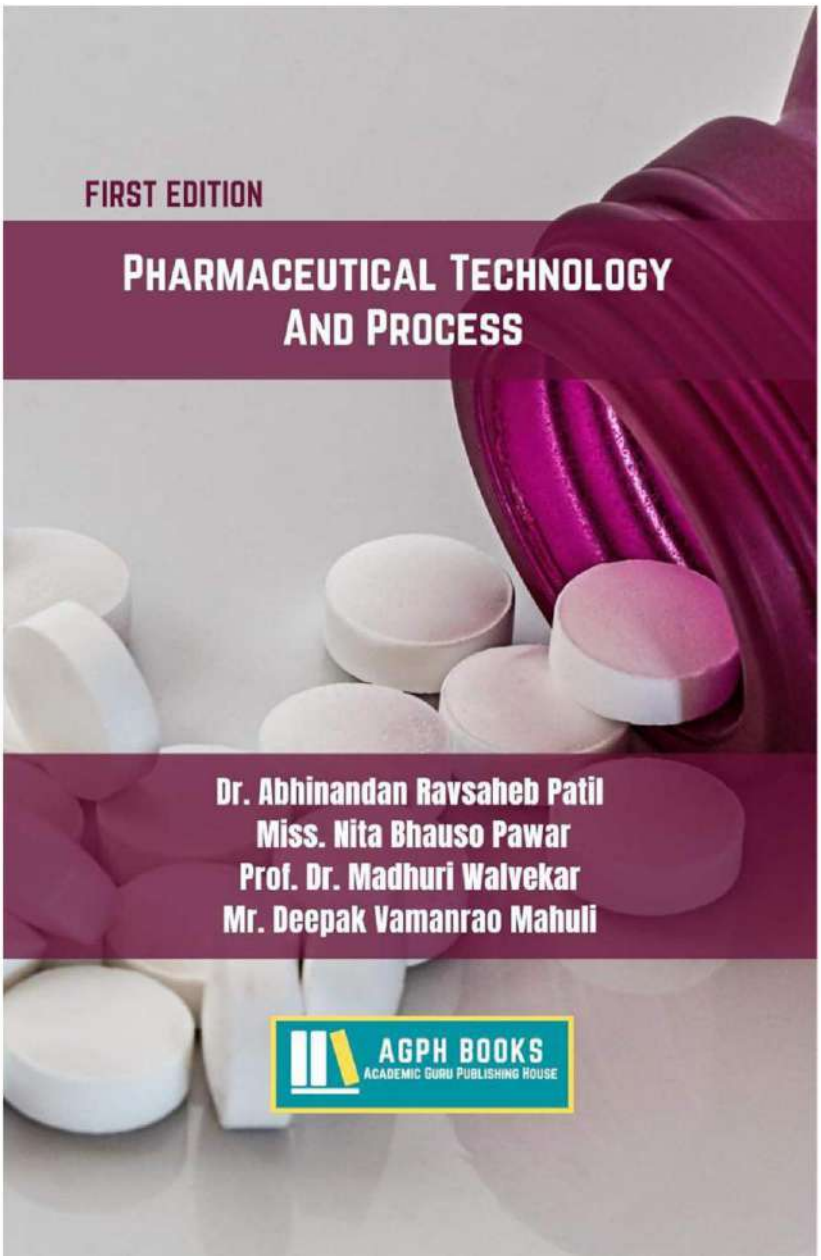

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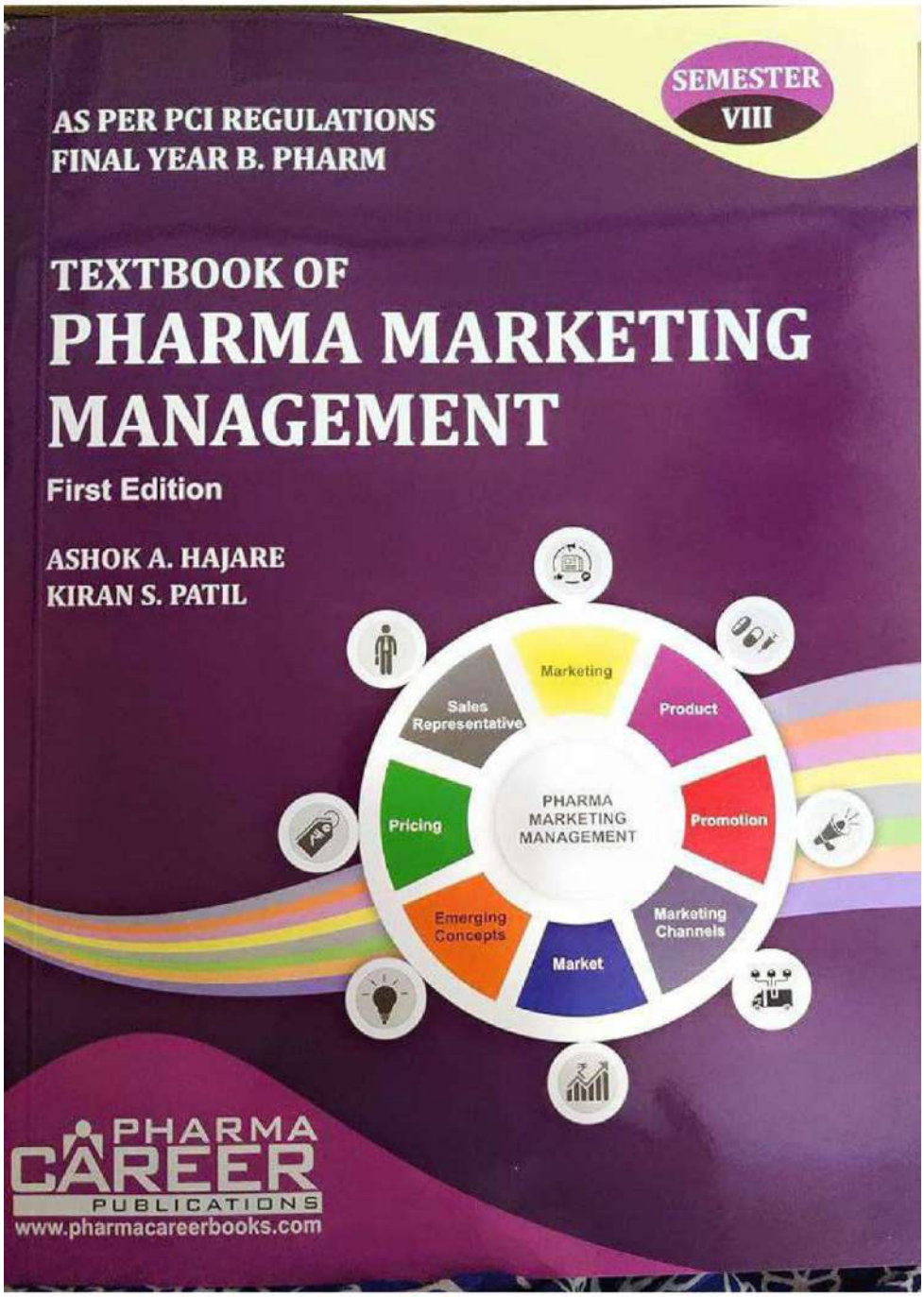

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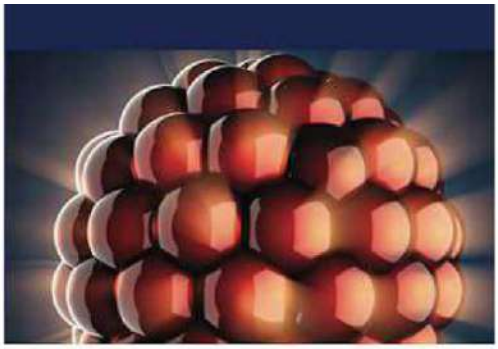

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Harinath More

DESIGN AND DEVELOPMENT OF MUCOADHESIVE MICROSPHERES

MUCOADHESIVE MICROSPHERES

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Biodegradable microspheres are one of the most useful devices to deliver materials in an effective, prolonged and safe manner. Mucoadhesion is a novel area of interest in the design of drug delivery systems to maintain the dosage form at the site of action or absorption and to facilitate intimate contact of the dosage form with underlying absorption surface to improve and enhance bioavailability. Repaglinide is a meglitinide analogue used as oral hypoglycaemic drug and having very low t1/2 (~ 1hr.), 56% bioavailability. It is totally absorbed from GIT, so it is the need to increase its transit time, by formulating with HPMC K4M, sodium alginate and Carbopol 934 P. Sodium alginate microspheres for an anti diabetic drug, repaglinide, were prepared by ionic-gelation method and investigated for its various physicochemical and release properties. Incorporation of HPMC K4M and Carbopol 934 P in the formulations affected the mucoadhesion, % water absorption, shape and release pattern of the formulations. Drug release from the microspheres followed peppas order kinetics. The prepared batches were found to sustained the release of the drug for 12 hours.

Dr. Anilkumar J. Shinde, M Pharm Ph.D (Pharmacy) from Shivaji University, Kolhapur Presently he is working as Associate Professor in Pharmaceutics Department at Bharati Vidyapeeth College of Pharmacy, Kolhapur. He is approved UG, PG & Ph.D teacher of Shivaji University, Kolhapur. He has 65 research papers & 5 review articles & one patent granted.

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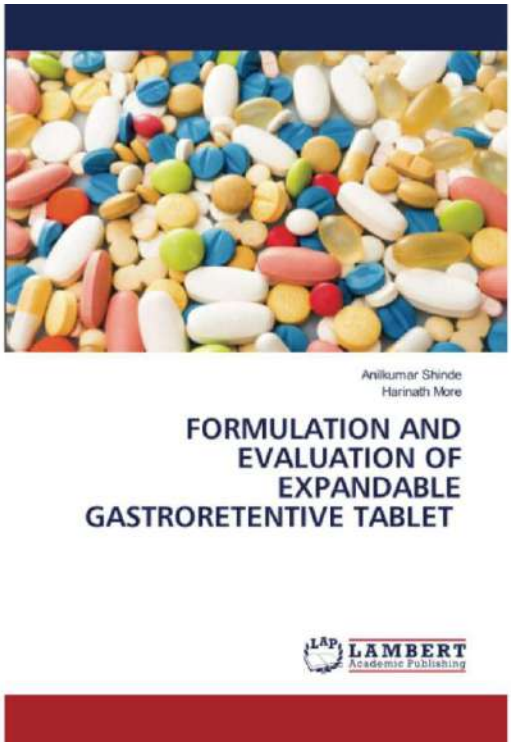

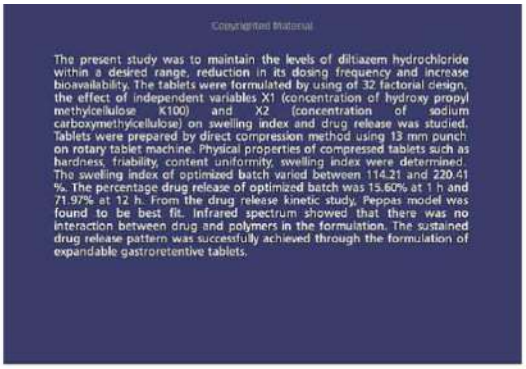

Dr. Anilkumar J. Shinde, M.Pharm Ph.D he started career in Pune university, Pune as Lecturer in Pharmaceutics & younged in teaching since 1994. Presently he is working as Associate Professor in Pharmaceutics Department at Bharati Vidyapeeth College of Pharmacy, Kolhapur. He has 55 research papers & International Nigerian patent granted on solid.

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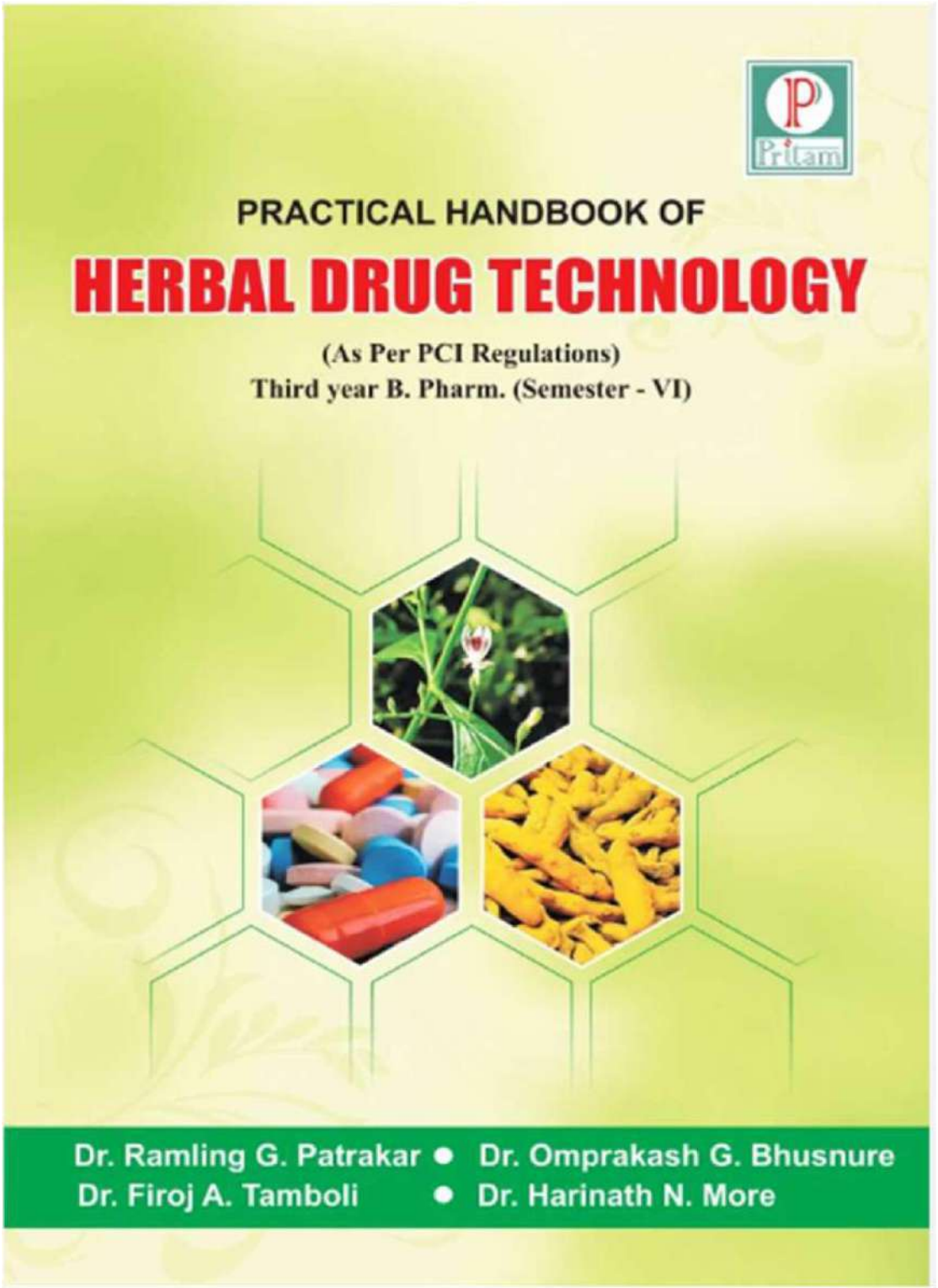

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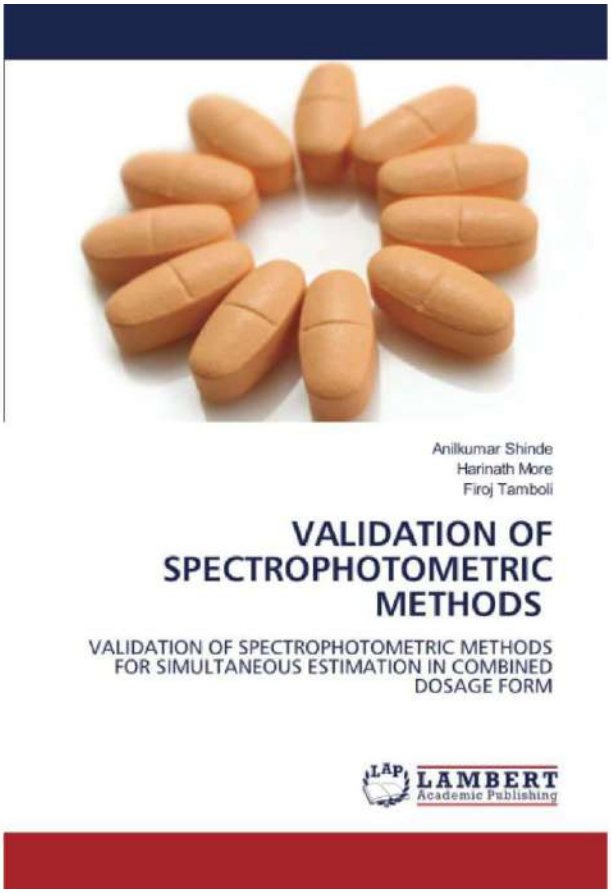

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Two simple, accurate and reproducible spectrophotometric methods have been developed for the simultaneous estimation of Norfloxacin and Tinidazole in pharmaceutical dosage forms. The first method involves determination using the AUC Method (Area Under Curve Method); the sampling wavelengths selected are 272-282 nm and 313-323 nm over the concentration ranges of 2-12µg/mL and 3-18 µg/mL for Norfloxacin and Tinidazole respectively. The second method involves determination using the Q-Analysis Method (Absorbance Ratio Method); the sampling wavelengths selected are 277 nm and 318 nm over the concentration ranges of 2-12 µg/mL and 3-18 µg/mL for Norfloxacin and Tinidazole respectively. The results of the analysis were validated statistically and recovery studies were carried out as per ICH guidelines.

Dr. Anilkumar J. Shinde, M.Pharm Ph.D (Pharmacy) has 23 years experience in teaching & researching. Presently he is working as Associate Professor in Pharmaceutics Department at Bharati Vidyapeeth College of Pharmacy, Kolhapur. He has 65 research papers & 5 review articles published, International Nigerian patent granted with Dr. Petra Obioma Nnama

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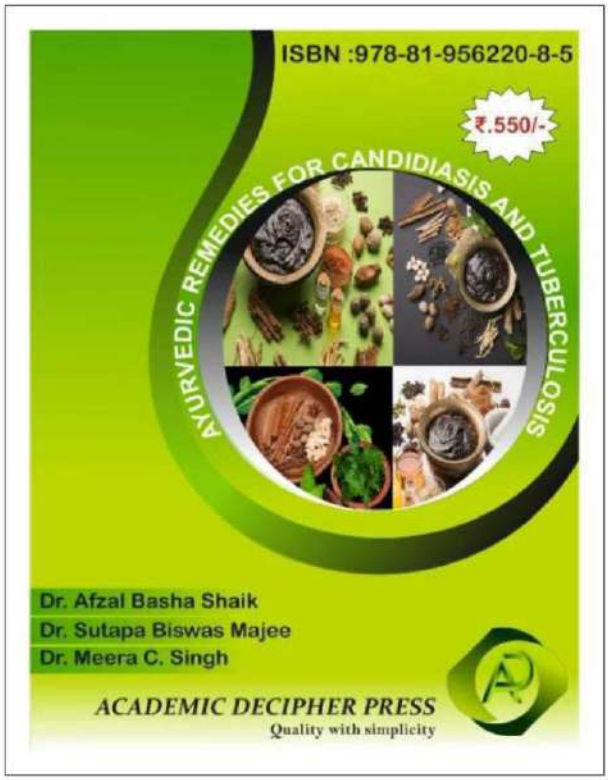

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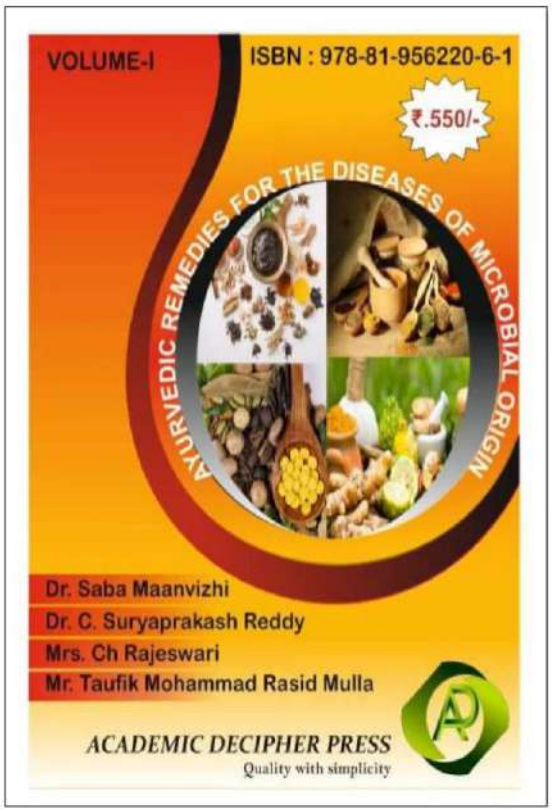

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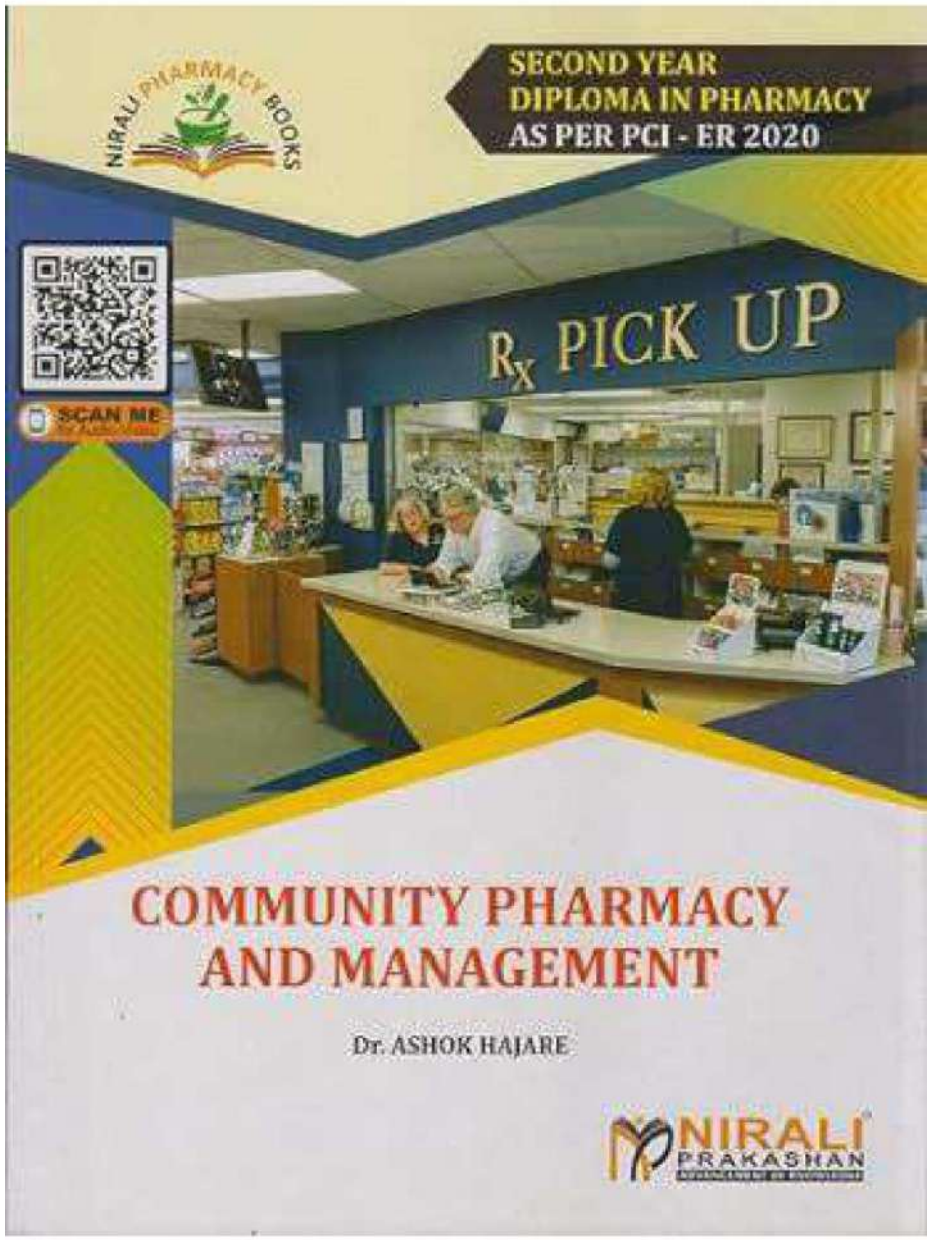

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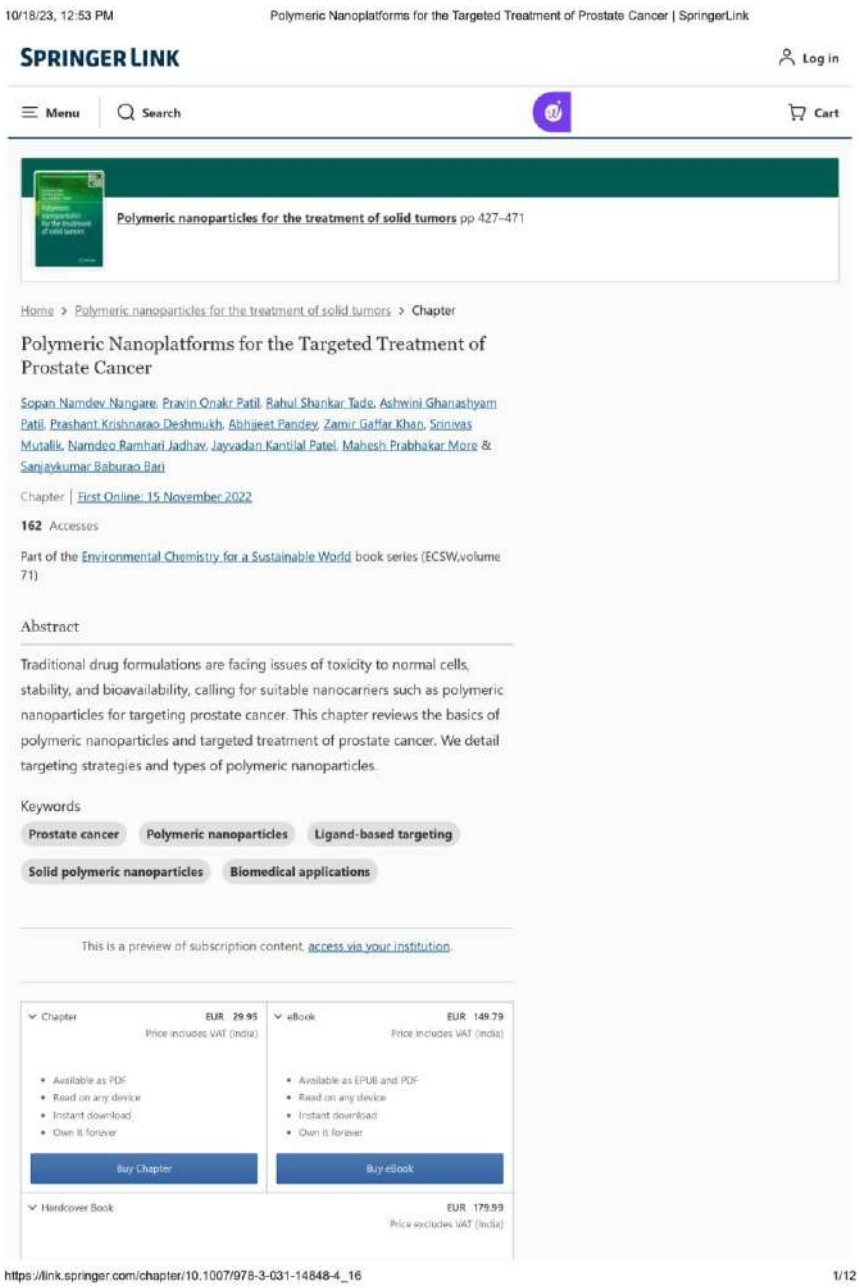

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Traditional drug formulations are facing issues of toxicity to normal cells, stability, and bioavailability, calling for suitable nanocarriers such as polymeric nanoparticles for targeting prostate cancer. This chapter reviews the basics of polymeric nanoparticles and targeted treatment of prostate cancer. We detail targeting strategies and types of polymeric nanoparticles.

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Prostate cancer Polymeric nanoparticles Ligand-based targeting Solid polymeric nanoparticles Biomedical applications

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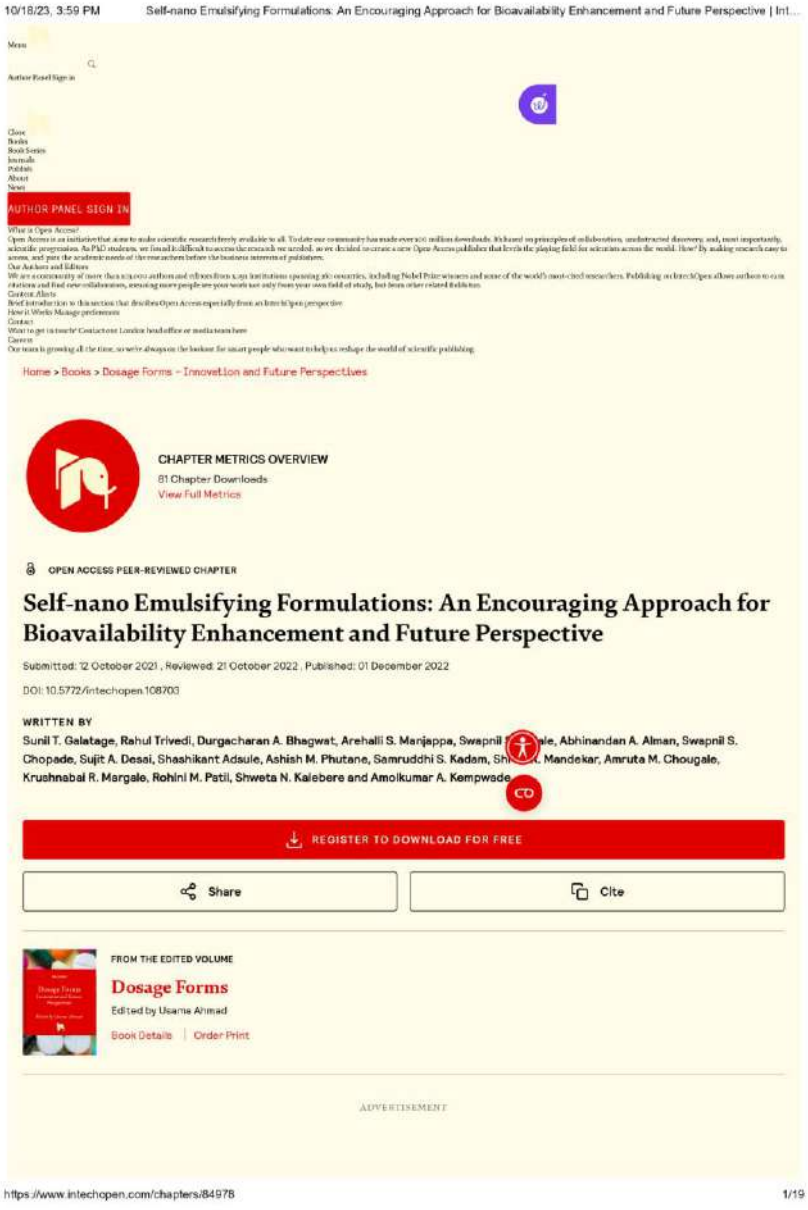

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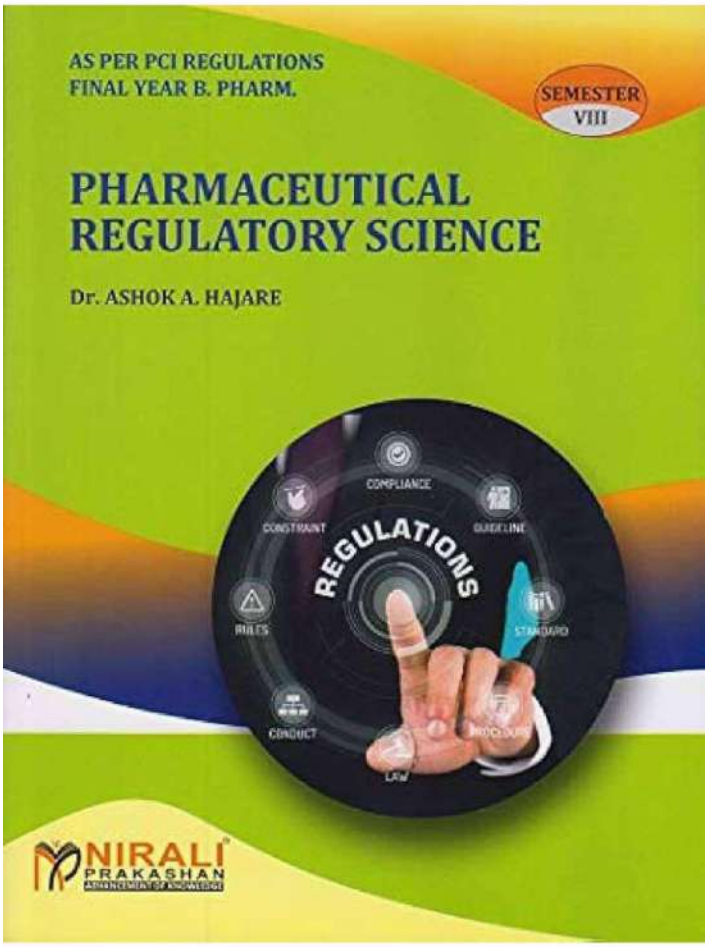

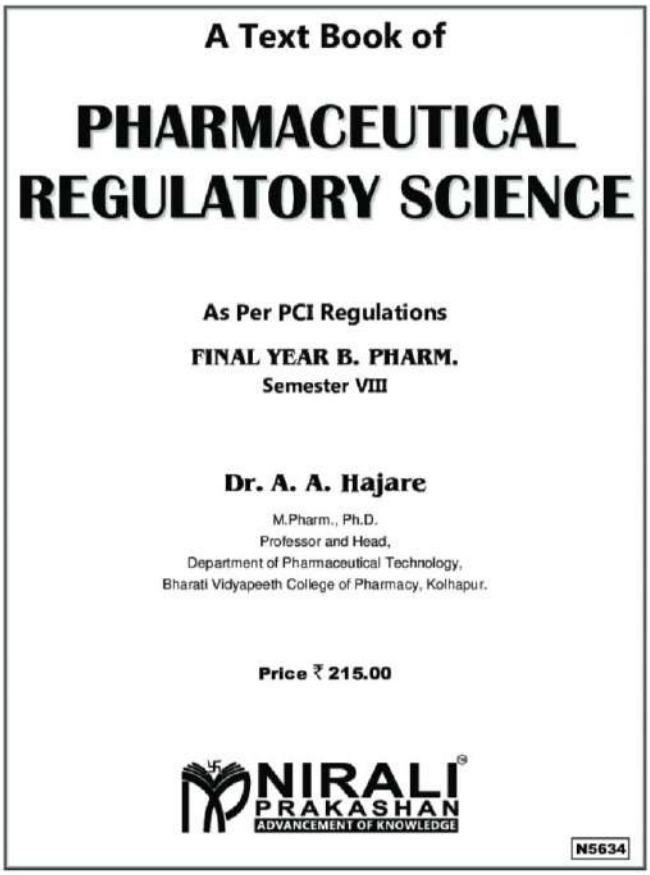

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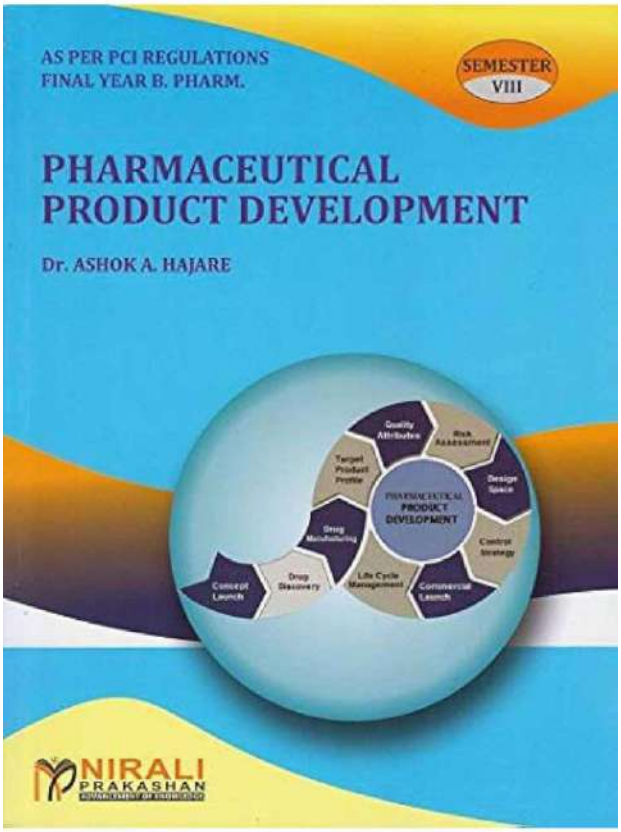

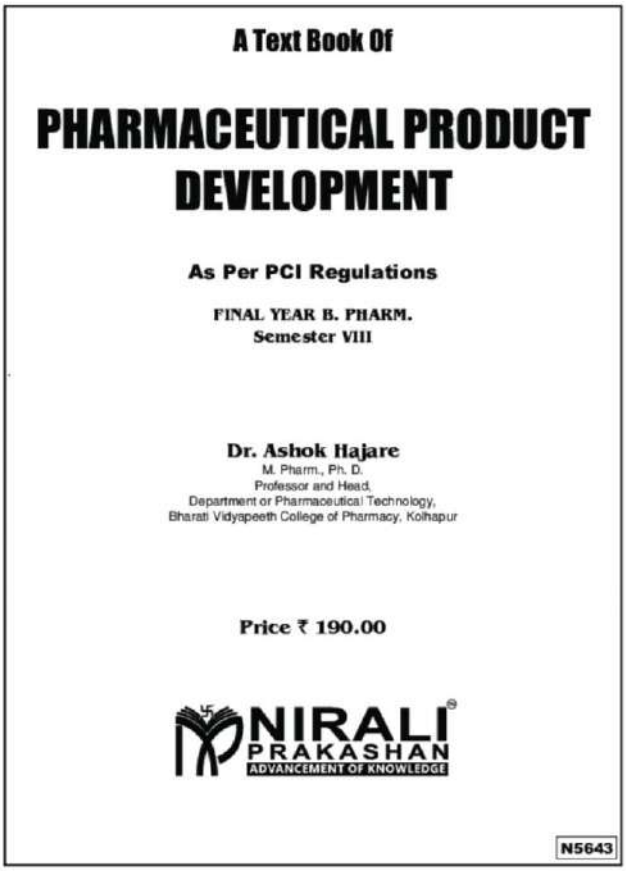

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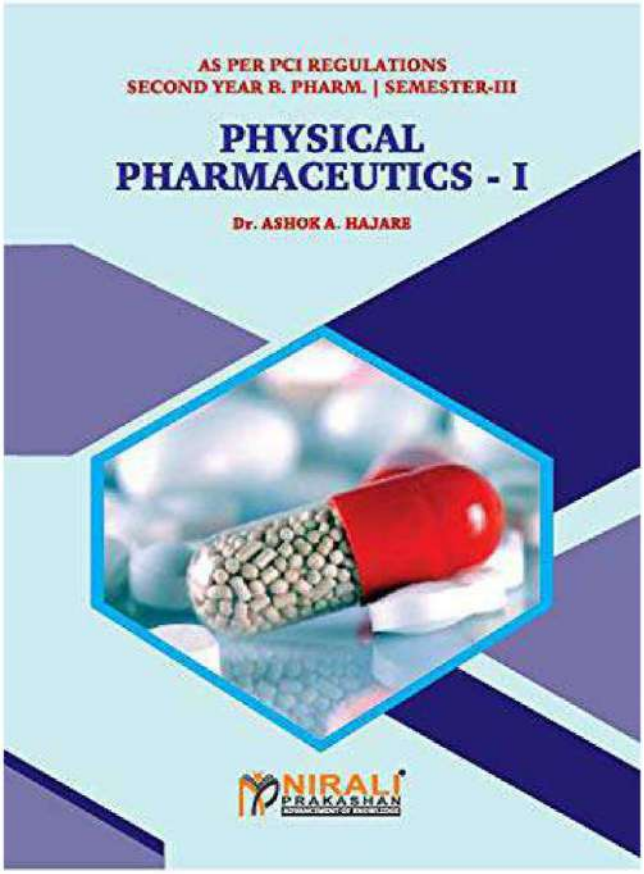

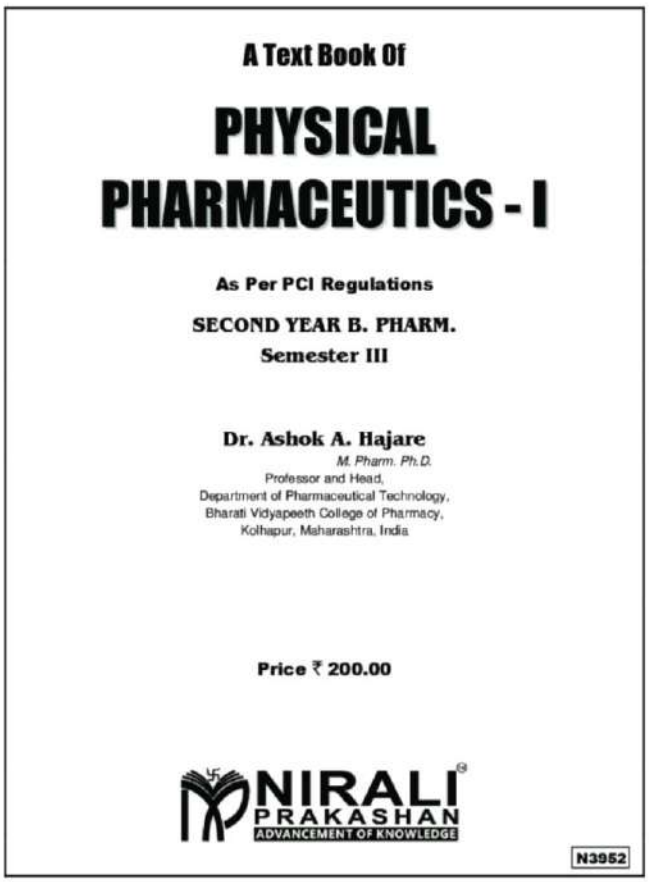

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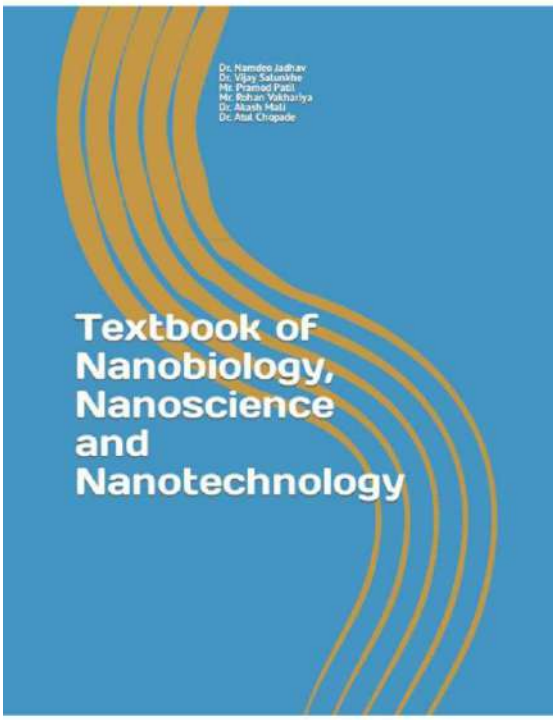

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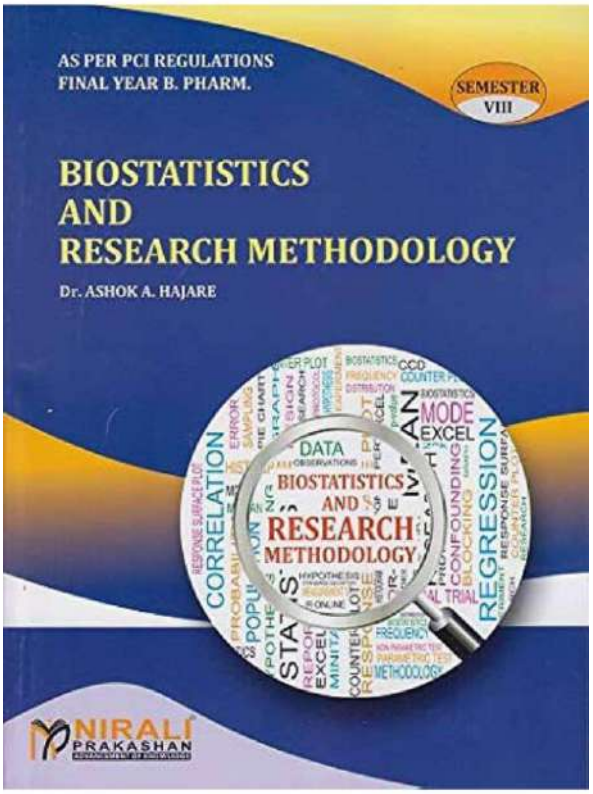

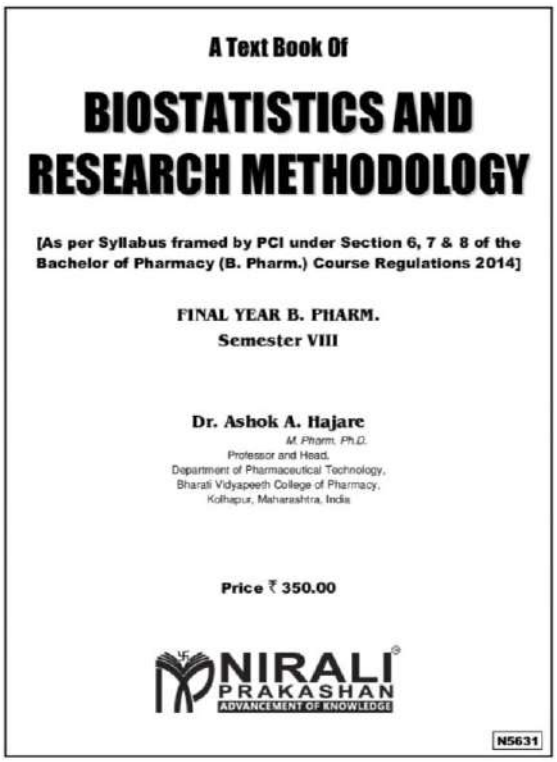
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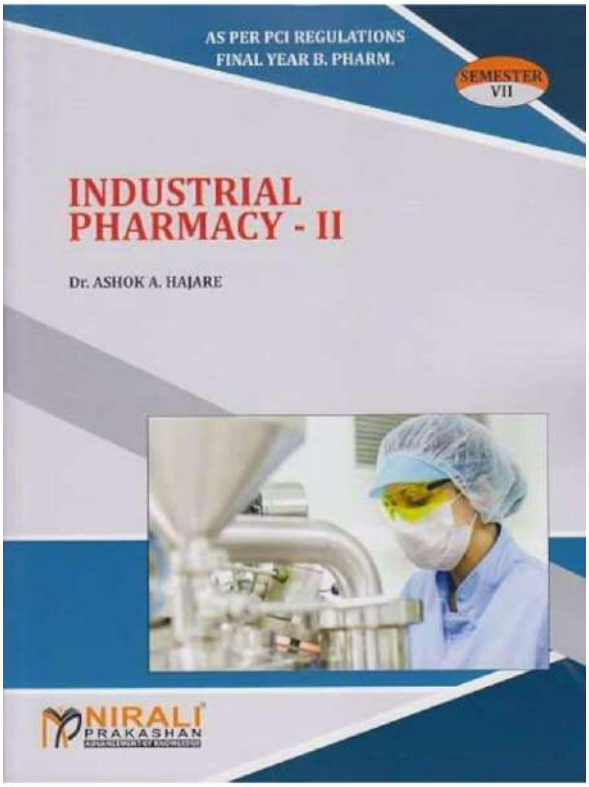

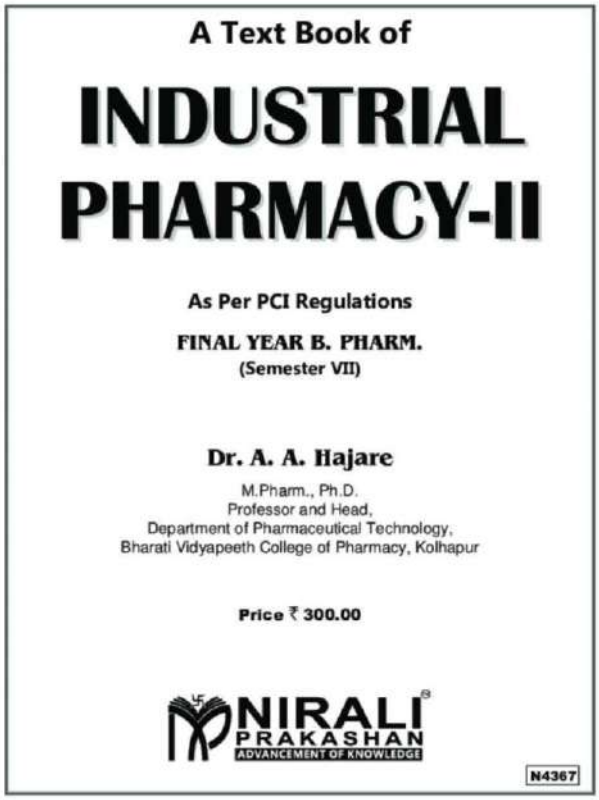

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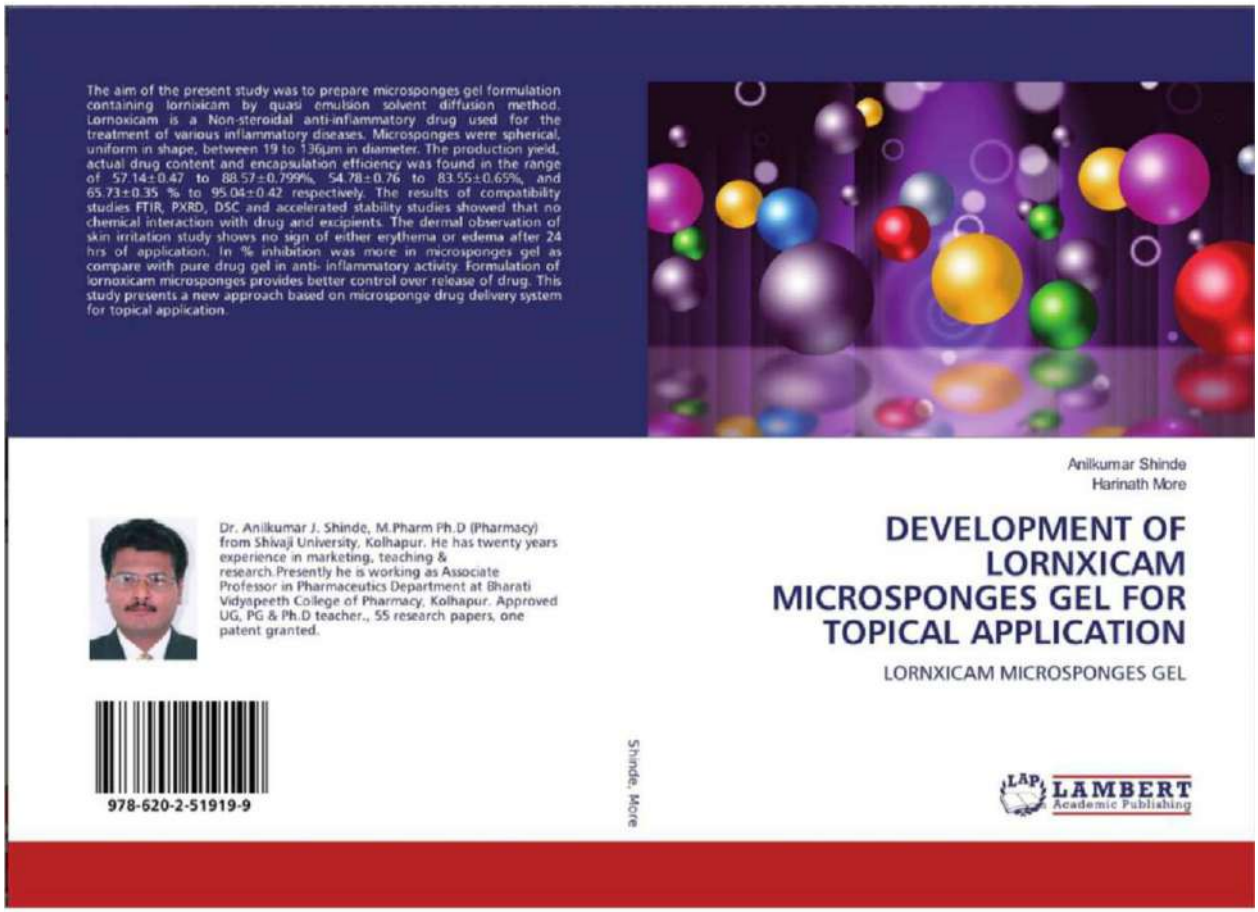

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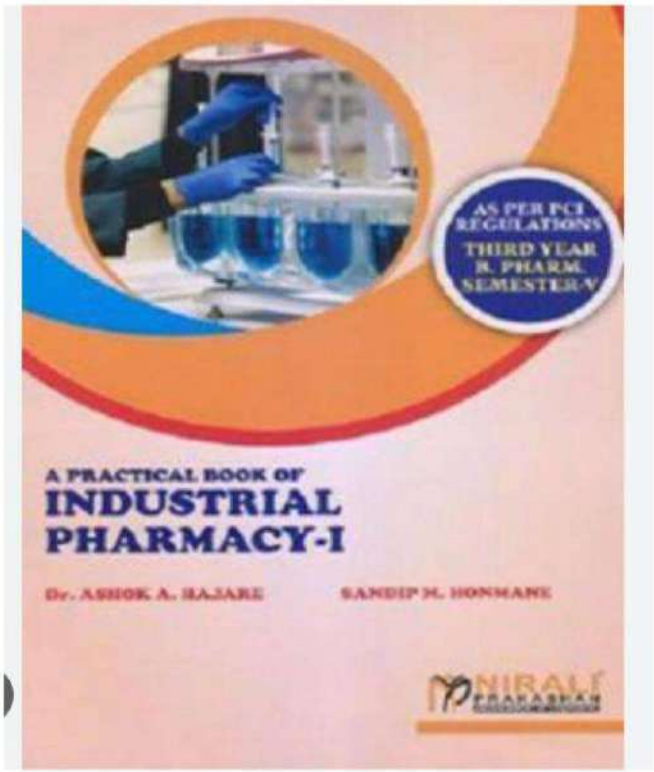

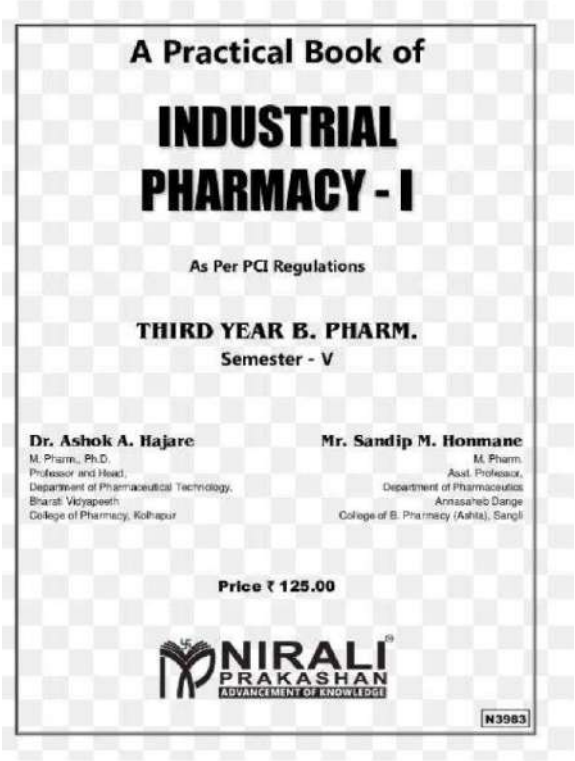

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The objective of present study was to formulate an oral mcoadhesive tablet of diltiazem hydrochloride.Investigate the effect of amount of HPMC K4M and sodium alginate on the sustained release and gastric residence time of dosage form. The mucoadhesive tablet prepared by direct compression method was used varying concentrations of HPMC K4M and Sodium alginate and (1:1, 1:1.5, 1:2) Drug and Polymer ratio.The formulations were evaluated and results revealed that FTIR studies showed no evidence of interactions between drug and excipients used. The mucoadhesive strength, residence time and drug content of formulation F3 was found to be 26.35 ± 1.15 mg, >7.5hrs, and 98.75 ± 0.05 % respectively. The formulation F3 exhibited sustained drug release i.e. 75.71% in 12 h. The in vitro release kinetics studies reveal that formulations fit well with zero order kinetics and mechanism of drug release is Super case II transport. The study was concluded that formulation of mucoadhesive tablets from the cumulative % drug release study reveals that increase in the concentration of adhesive polymers cause slow the drug release. Tablet of DTZ can be beneficial in treatment of hypertension.

Anilkumar Shinde
Harinath More

Mucoahesive Gastroretentive Tablet Of Diltiazem Hydrochloride

Dr. Anilkumar J. Shinde, M.Pharm Ph.D he started career in Pune university, Pune as Lecturer in Pharmaceutics & younged in teaching since 1994. Presently he is working as Associate Professor in Pharmaceutics Department at Bharati Vidyapeeth College of Pharmacy, Kolhapur. He has 55 research papers & International Nigerian patent granted.

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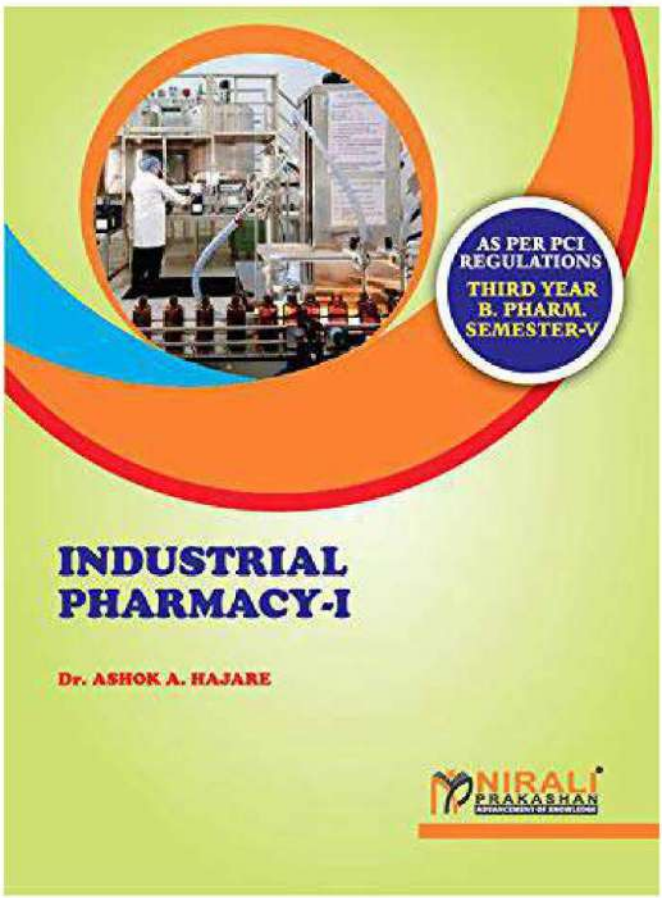

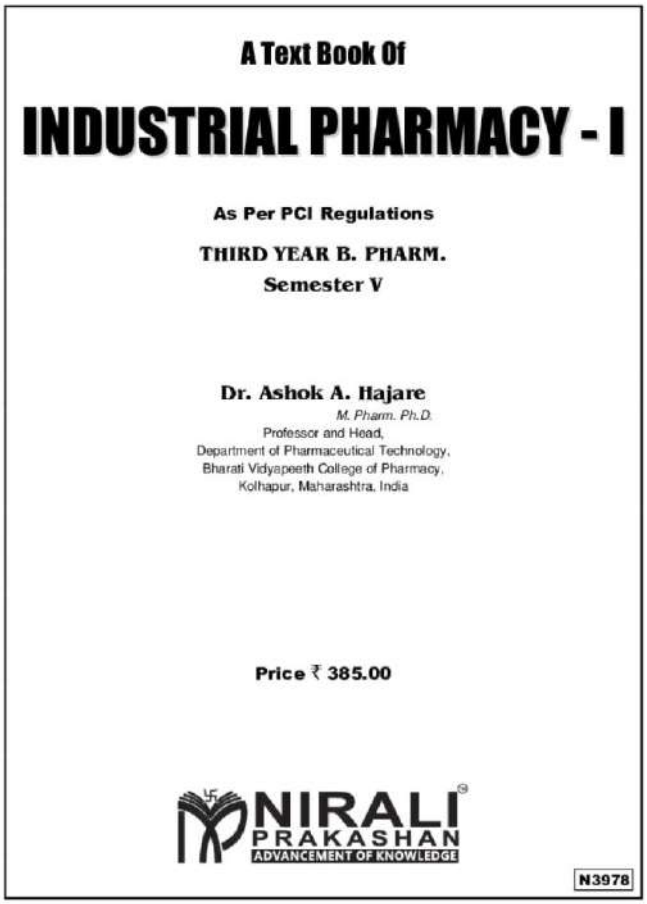

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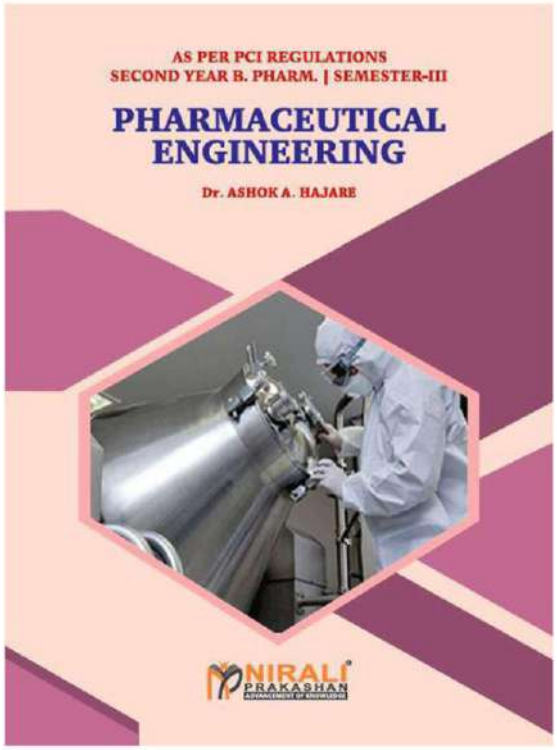

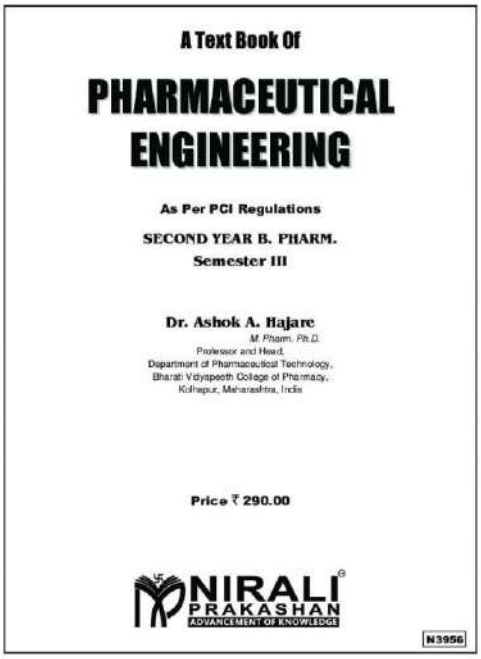

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