Textiles

Principles of Textile Finishing

Krishna Mohan Srivastava

About the Book
Textile finishing is the term for chemical and mechanical processes used on fabric after it's manufactured but before it is cut and sewn into garments or made into other things. Textile finishing is used to achieve desired effects and it can have aesthetic or functional benefits. Finishing processes might modify a fabric's final appearance, make it softer, or improve elements of its performance. Whichever process is done, textile finishing makes fabric more appealing to the consumer. Today, most fabric is manufactured in factories. Right after it is made it's very dirty and harsh. You wouldn't want to wear or use it for other things. In this state, it's called greige goods or grey goods. This is why textile finishing is important. Those dirty, nasty grey goods need to go through finishing processes before they can be used for clothing, bed linens, interior furnishings, and other uses.

Washing cleans the fabric and removes dirt that might remain following the manufacturing process. It can also involve other finishing processes like bleaching, which removes color and whitens fabric, and scouring, which uses high temperature and detergents to remove dirt, grease, and wax from manufacturing. During this phase of textile finishing, the fabric might also undergo special processes like mercerizing, which is done to cotton. In mercerizing, the cotton fabric is submerged in a sodium hydroxide solution for short periods and then rinsed, all while being held in tension. This process makes cotton fabric stronger, gives it a lustrous or shiny surface, and improves its ability to take dyes and hold more vivid colours. This comprehensive book provides an accessible introduction to the principles, types, and applications of textile finishes.

Contents
1. Introduction to Finishing
2. Surface Finishing
3. Anti-shrink Finishing
4. Starch Finishing
5. Acid-alkali Finish
6. Softening
7. Repellent Finishes
8. Flame and Fire Retardant Finishes
9. Easy care Finishing
10. Antistatic Finishes
11. Finishes for Protection against Microbial Insect and Soil Release Finishes
12. Finishing of Denim Fabrics
13. Wool and Silk Finishing Processes
14. Various Eco-friendly Finishes

Smart Textiles and their Applications

Devang Saini

About the Book
A smart textile are materials and structures that sense and react to environmental conditions or stimuli, such as those from mechanical, thermal, chemical, electrical, magnetic or other sources. Textile science today stands on a novel, unexplored and a fantasy filled horizon. Textiles that can think for themselves! A textile is an object made by weaving threads or yarns into a fabric. Originally, these yarns were made of natural animal or plant-based fibers. Then, as technology improved, synthetic fibers were manufactured in laboratories that were stronger and more versatile. Now digital communications technology has reached the point where the same extremely thin fibers that run through your smartphone and relay data can be woven into cloth textiles.

That's what a smart textile really is: a cloth that has modern computer-based technology woven into it. Smart textiles can be broken into two different categories: aesthetic and performance enhancing. Aesthetic examples include fabrics that light up and fabrics that can change colour. Some of these fabrics gather energy from the environment by harnessing vibrations, sound or heat, reacting to these inputs. The colour changing and lighting scheme can also work by embedding the fabric with electronics that can power it. Performance enhancing smart textiles are intended for use in athletic, extreme sports and military applications. These include fabrics designed to regulate body temperature, reduce wind resistance, and control muscle vibration – all of which may improve athletic performance. Other fabrics have been developed for protective clothing, to guard against extreme environmental hazards, such as radiation and the effects of space travel. The health and beauty industry is also taking advantage of these innovations, which range from drug-releasing medical textiles, to fabric with moisturizer, perfume, and anti-aging properties. This important book provides detailed coverage of smart coating types, processes, and applications.
Sociology in a Changing World

Prem Lata

About the Book
Sociology is a fundamental social science discipline that studies social structures and their changes as well as social activities, values and attitudes. In today’s world, both cultures and societies are changing more quickly than ever before. Change is an ever-present phenomenon. It is the law of nature. Society is not at all a static phenomenon, but it is a dynamic entity. It is an ongoing process. The social structure is subject to incessant changes. Individuals may strive for stability, yet the fact remains that society is an ever changing phenomenon; growing, decaying, renewing and accommodating itself to changing conditions. The human composition of societies changes over time, technologies expand, ideologies and values take on new components; institutional functions and structures undergo reshaping. Hence, no society remains complete static. Incessant changeability is very inherent nature of human society. With the current rate of population increase, it is expected that the total requirements for future health, education, housing and many other welfare needs are bound to increase. This will certainly bring the drastic changes not only in the microstructures, but also in macrostructures of Indian society. This well written and clearly organized book will be useful for students, policymakers, researchers, and social workers.

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About the Author
Dr. Prem Lata is Senior Lecturer and Head of Department of Sociology at Dau Dayal Mahila (PG) College, Firozabad, UP. She obtained her M.A., B.Ed. and NET with good marks. She did her Ph.D. from BR Ambedkar University, Agra. Dr. Lata presented many papers in national and international seminars.

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The Tribals of India

Afroze Iqbal

About the Book
India is the home to large number of indigenous people, who are still untouched by the lifestyle of the modern world. With more than 84.4 million, India has the largest population of the tribal people in the world. These tribal people also known as the adivasi’s are the poorest in the country, who are still dependent on hauntning, agriculture and fishing. Some of the major tribal groups in India include Gonds, Santhals, Khasis, Angamis, Bhils, Bhuilas and Great Andamanese. All these tribal people have their own culture, tradition, language and lifestyle. There are some 573 communities recognized by the government as Scheduled Tribes and therefore eligible to receive special benefits and to compete for reserved seats in legislatures and schools. They range in size from the Gonds (roughly 7.4 million) and the Santals (approximately 4.2 million) to only eighteen Chaimals in the Andaman Islands. Central Indian states have the country’s largest tribes, and, taken as a whole, roughly 75 percent of the total tribal population live there. The present book offers a comprehensive account of India’s tribals and the changes in their lives over times. The book will be useful for students, social workers, policy makers, and all those interested in the tribal studies.

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About the Author
Dr. Afroze Eqbal is Assistant Professor and Head in the Department of Sociology at Government P.G. College, Narayan Nagar, Pithoragarh, Uttarakhand. He has also two years teaching experience at Patna University and Magadh University. He authored three books and many research papers published in reputed journals. He has also attended several Seminars and Symposiums.

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**Tribal Communities and Social Change**

*Anuja Ameri*

**About the Book**

The tribals took to agriculture sometime during the first quarter of the 20th century. At that time they had enough land in their possession. Increasingly, the caste Hindus made their entry into the tribal hinterland and since then the tribal land slipped into the hands of these non-tribals. The indigenous tribal religion has split into several reform movements. Bhagatism is the new form of religion accepted by the tribals. This has created an ethnic stratification among these indigenous people. Today, these tribals are working as migrant groups outside their parent village. Government jobs have also encouraged them to move from one posting to another in a state or outside the state. Migration has emerged as a powerful factor for the transformation of tribals. The tribals are no longer an encapsulated mass of people restricted to hills and forests. They have become a part of the larger process of globalization. This book tries to explore the contemporary position of Indian tribes in respect of nature, degree of change and development on the one hand and their subsequent state of integration on the other. Students and professionals from tribal studies and development will find the book useful.

**Contents**

1. The State of India’s Indigenous and Tribal Peoples
2. Impact of Urbanisation on Tribal Development
3. Globalization and Local Cultures
4. Roll of SC/ST Commission of India?
5. Indian Tribal Policy
6. Legal Provisions for the Welfare of Tribals
7. Women’s Participation in Panchayats in Scheduled Areas
8. A Society in Transition
9. Cultural Heritage, Cultural Empowerment and Development

**About the Author**

*Dr. Anuja Ameri* is a researcher associated with the department of Sociology, Patna University. She is author/co-author of 12 academic books and the editor of one other, and have published over 100 journal articles and book chapters. Her recent research includes a project investigating discourses of health, motherhood and children’s embodiment, a theoretical analysis of preborn and infant embodiment and a critical analysis of the use of mobile digital technologies for health promotion.

**Tribes, Forest and Social Formation**

*Madhu Kumari*

**About the Book**

India’s forests are home to crores of people, including many Scheduled Tribes, who live in or near the forest areas of the country. Nearly 250 million people live in and around forests in India, of which the estimated indigenous Adivasi or tribal population stands at about 100 million. Tribals have been living in the forest ecology and that has shaped their life and the society they presently have. Most of them live in close proximity of forest and depend on the forest for their livelihood and sustenance. Distinctions based on kinship, wealth and power among some tribal villages are as sharp as we find among the non-tribal villages. Tribals are not, theoretically, a part of Hindu social organisation, but they have always been in touch with wider society in India. Tribes today are in search of a sense of identity, of a sense of belonging and for self-determination in a new social order. Several new states have been formed in the north-eastern region. The demand for the formation of a separate state of Jharkhand for tribals of Bihar and adjoining districts of other states was indicative of this new identity. This valuable book can be used by teachers and students at their graduate study and teaching.

**Contents**

1. Eco-development and Tribal Empowerment
2. Ethnicity and Social Structure in Gond, Asur, Baiga and Banjara
3. Forest Policy and Tribal Development
4. Tribal Traditions, Society and Culture in India
5. Cultural Heritage of Indian Tribes
7. Globalization, Poverty and Food Security in Tribal People
8. Grassroots Development
9. Environmental Degradation and its Protection

**About the Author**

*Dr. Madhu Kumari* is Senior Lecturer in the Department of Sociology, J.D. Women’s College, Patna. Participated in several national and international seminars, her research papers have been published in reputed journals.
WOMEN STUDY / GENERAL

Women Empowerment in India
Approaches and Strategies
Shilpa Sharma

About the Book
The subject of empowerment of women is becoming a burning issue all over the world including India since last few decades. Women Empowerment itself elaborates that Social Rights, Political Rights, Economic stability, judicial strength and all other rights should be also equal to women. There should be no discrimination between men and woman. Women should now there fundamental and social rights which they get once they born. The present book analyses the women empowerment in India in an easy to go through and comprehend language. I hope it would be more fruitful for readers and provide them with authentic information and insight into the subject.

About the Author
Dr. Shilpa Sharma is an alumni of Govt. PG College, Saharanpur and has studied Politics during her post graduation and research. Having a very keen interest in women studies, she has studied the status of women from a very wide cross section of society world over. Women empowerment in India has been discussed more in papers rather in spirit. She discusses the status of women in the various states in India in comparison to the promises given by several political parties when in power.

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Smartphone and Wireless Communication
Rajesh Verma

About the Book
A mobile phone, known as a cell phone is a portable telephone that can make and receive calls over a radio frequency link while the user is moving within a telephone service area. The radio frequency link establishes a connection to the switching systems of a mobile phone operator, which provides access to the public switched telephone network (PSTN). Modern mobile telephone services use a cellular network architecture, and, therefore, mobile telephones are called cellular telephones or cell phones. In addition to telephony, 2000s-era mobile phones support a variety of other services, such as text messaging, MMS, email, Internet access, short-range wireless communications, business applications, video games, and digital photography. Mobile phones offering only those capabilities are known as feature phones; mobile phones which offer greatly advanced computing capabilities are referred to as smartphones. 5G is a technology and term used in research papers and projects to denote the next major phase in mobile telecommunication standards beyond the 4G / IMT-Advanced standards. The term 5G is not officially used in any specification or official document yet made public by telecommunication companies or standardization bodies such as 3GPP, WiMAX Forum or ITU-R. New standards beyond 4G are currently being developed by standardization bodies, but they are at this time seen as under the 4G umbrella, not for a new mobile generation. Readers will find this book essential to understanding their fundamental behavior and real world application.

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About the Author
Dr. Rajesh Verma is Assistant Professor in the Department of Education, Nalanda Open University, Patna. He is also Incharge of Information Technology in the same University. Authored several books on Education and Computer Science, his several research papers have been published in reputed journals.

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Every nation in the world needs to decide how it will deal with other nations in the world for no nation in the modern world has the luxury of an exclusive isolated existence. The nations of the world depend on each other for trade, cultural and political relations. Foreign policy is formulated by every state so as to serve its national interests. The scene of relationships between nations is constantly changing. There is constant change in the situation as to who are friends and who are enemies and why. Geography includes locations, size, topography, state boundaries, population, climate, and hydrography. All these elements are important in varying degrees for Indian national politics and foreign policy.

The growth of International law and organisation, not only impact on international relations but, many time pursue states to protect national interest at any cost. The advent of global liberal phenomenon and the emergence of technologically hi-speed atmosphere have made the world as 'global village'. The complex and inter-mingled nature of world has direct impact on foreign policy making of every state. In such environment, India has adopted a foreign policy with greater pragmatic manner.

The present book examines India's current and looming foreign policy challenges from a strategic and policy-oriented perspective. This comprehensive book is a must for political graduates, UPSC aspirants and anyone who is interested in the subject.

**Contents**
- Introduction of Indian Foreign Policy
- Non Align Movement
- India and South Asia: Identity, Politics and Foreign Policy
- India in the New World Order
- India and South-East Asia: Indian Perception and Policies
- India and Central Asia: Advancing the Common Interest
- India and the US in the Changing World
- India and Russia: Prospects and Problems
- India and Pakistan: Friend, Rivals Enemies

**About the Author**

Dr. Usha Kiran is H.O.D. & Associate Professor in the Department of Political Science at T.P.S. College, Patna, a constituent unit of Magadh University, Bodhgaya. Her several research papers have been published in reputed journals. She has also attended many national seminars.
Islamic Fundamentalism and Pakistan

Henna Tabassum

About the Book
Islam is one of the most rapidly growing religions in the world, and Islamic fundamentalism is one of its more forceful manifestations. Fundamentalist Islamic movements vary greatly regarding doctrine and social and political positions. Some fundamentalist movements are markedly conservative and propound a narrow understanding of the Islamic tradition, whereas others employ Marxist and other socialist strategies and principles. Many fundamentalist Muslim groups also employ a sharply duelist ideology in which everyone is either part of the group or against it. This affects how they interact with other groups, including other Muslim traditions, Judaism, Hinduism, Christianity, and the secular West. This book highlights the development of Islam and poses many questions about the correct interpretation of the Islamic Religion. The book highlights a striking analysis of how and why Islamic values have become such a potent contemporary political force, shedding new light on a much misunderstood situation in Pakistan.

Contents
Islam, Fundamentalism and Betrayal of Tradition; Pakistan and Islamic Identity; Making of Terrorism in Pakistan; Af-Pak and Islamic Extremism in Asia; Pakistan in Regional and Global Politics; Pakistan, Central Asia and the Region; US Role in India-Pakistan Relations

About the Author
Dr. Henna Tabassum did her M.A. in Sociology and Ph.D. from Magadh University, Bodh Gaya. She has been teaching P.G. Deptt. Of Sociology in A.N. College, Patna last 17 years under Magadh University. She has accomplished herself as researcher in woman studies in the area of Political Sociology and published a dozen of research papers in reputed journals of sociology and political sciences. Besides, she has been attending national and international seminars and conference both has participants and resources persons, organized by various educational institutions from time to time. She has published many books also organized UGC national seminar on woman and Human Rights and has performed on T.V. women Development Corporation Bihar as a member of expert panel on the subject like woman and weaker section in the society. At last present she is heading the P.G. Department of Sociology, A.N. College, Patna (a constituent unit of Magadh University, Bodh Gaya and accorded grade “A” by UGC and CPE status by NAAC) and is also the coordinator of psycho-social cell for counseling the students established in the A.N. College, Patna.
Philosophy of Education

Arti Kumari

About the Book
Philosophy of Education is a label applied to the study of the purpose, process, nature and ideals of education. It can be considered a branch of both philosophy and education. Education can be defined as the teaching and learning of specific skills, and the imparting of knowledge, judgment and wisdom, and is something broader than the societal institution of education we often speak of. Many educationalists consider it a weak and woolly field, too far removed from the practical applications of the real world to be useful. But philosophers dating back to Plato and the Ancient Greeks have given the area much thought and emphasis, and there is little doubt that their work has helped shape the practice of education over the millennia. The multiple ways of conceiving education coupled with the multiple fields and approaches of philosophy make philosophy of education not only a very diverse field but also one that is not easily defined. Although there is overlap, philosophy of education should not be conflated with educational theory, which is not defined specifically by the application of philosophy to questions in education. Philosophy of education also should not be confused with philosophy education, the practice of teaching and learning the subject of philosophy. Philosophy of education can also be understood not as an academic discipline but as a normative educational theory that unifies pedagogy, curriculum, learning theory, and the purpose of education and is grounded in specific metaphysical, epistemological, and axiological assumptions. These theories are also called educational philosophies. This book is an effort to familiarise readers with the most important perennial questions in philosophy of education.

Contents

About the Author
Dr. Arti Kumari is working as Assistant Professor in the Department of Philosophy in M.A.M. College, Naugachia, TM Bhagalpur University, Bhagalpur. She did her MA in Philosophy and Ph.D degree in Philosophy from TM Bhagalpur University, Bhagalpur in 1996. She participated and presented many papers in National Seminars.

The Great Philosophers and their Ideas

Mahesh Kumar Singh

About the Book
Philosophy, which literally means “the love of wisdom,” is one of the oldest disciplines in history. There are many ideas about philosophers and what they do. Some have even considered the field to be a science that deals with logic and reason. Either way, many famous philosophers have made their contributions known to the world through their writings and their students. Below is a list of the greatest thinkers of all time along with their most important theories about human nature and other ponderings of the world. A philosopher is someone who practices philosophy, which involves rational inquiry into areas that are outside either theology or science. Philosophy has always been and always will be revolutionary. Although New Age is generally tolerant of almost any world religion or philosophy, it is opposed to the “narrow-mindedness” of Christianity that teaches Jesus Christ is the only way to eternal salvation. New Age philosophy is complicated to define because there is no centralized hierarchy, doctrine, or membership. Since the beginning of time mankind has struggled with the big questions surrounding our existence. Since the 20th century, professional philosophers contribute to society primarily as professors. However, many of those who study philosophy in undergraduate or graduate programs contribute in the fields of law, journalism, politics, religion, science, business and various art and entertainment activities. This brief introductory book provides a veritable brief history of philosophy, offering precise descriptions of the major branches of philosophical thought and exploring the contributions of great thinkers to the various fields of philosophic inquiry. Anyone interested in meaning of life and existence or the history of philosophy generally will find much of great interest in this book.

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About the Author
Dr. Mahesh Kumar Singh obtained B.A and M.A. (Philosophy) from Allahabad University, Allahabad and Ph.D. from S.K.M. University, Dumka. He is Assistant Professor in the Department of Philosophy at Deoghar College, Deoghar (a constituent unit of SKM University). He has authored Encyclopedia on Tilak (volume 1 and 2), Happiness of Peace in Buddhism and The Builder of Modern India Sarvepalli Radhakrishnan. Dr. Singh has attended several national seminars and presented papers there. His several research papers have been published in reputed journals.
Biofuels are designed to replace gasoline, diesel fuel and coal, which are called “fossil fuels” because they are made from animals and plants that died millions of years ago. Biofuels are made mostly from plants that have just been harvested. Depleting fossil fuel reserves and adverse effects of fluctuating oil prices have renewed interest in alternative and sustainable sources of energy.

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About the Author
Dr. Birendra Kumar Singh is Associate Professor in the Department of History, at B.R.A. Bihar University, Muzaffarpur. Dr. Singh has authored ten volumes series on Indian Freedom Struggle. His several research papers have been published in reputed journals.

Palaces, Forts, and Walled Cities

Contents

About the Author
Dr. Chandra Bhushan Mishra is Associate Professor & Head, Department of Ancient History Culture and Archaeology, Nava Nalanda Mahavihara, Deemed University, Nalanda. In past, he was Lecturer and Head, Department of Buddhist Studies, Krishak College, Nawada and UGC Research Associateship at Magadh University, Bodhgaya.

Ground Coastal Environments

About the Book
Coastal regions offer some of the most spectacular and dynamic environments to be found anywhere in the world, with 40% of the world’s population living within 100km of the coast. Coastal areas are a highly dynamic interface between the continents and the ocean. The physical and chemical processes in these areas are quite complex and commonly are poorly understood.

Contents
Introduction to Coastal Environment; Beach Ridge Landform; Common Intertidal Habitats; Coastal Sediment Process; Causes and Effects of Ocean Pollution; Coastal Protection and Hard Engineering; Managing Coastlines: Soft Engineering.

About the Author
Dr. Md. Arshad Jamal is Assistant Professor in the Department of Zoology at Soghra College Biharsharif, a Constituent unit of Magadh University, Bodhgaya. His several research papers have been published in Journals of repute. He has also attended many National and International Seminars.
**Forestry and Environment of Jammu and Kashmir**

Manoj Kumar Singh

**About the Book**
The sustainability of economic development is directly linked with protection of environment as well as Forests. The intangible benefits of forest in supporting human life and vegetation are far more superior to its tangible benefits. In J&K, the three major sectors viz. Tourism, Electricity and Agriculture have their genesis in forests. Forest also play an important role in moderating the climate, maintaining the soil mantle, improving soil fertility, minimizing soil erosion, purifying the air, preservation of wild life and in regulating the flow of water in rivers and streams. Forests are also main source of timber, fuel, fodder, medicines and other non timber minor products.

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**About the Author**
Dr. Manoj Kumar Singh is Assistant Professor in the Department of Botany at S.M.D. College, M.N. Jalalpur, Gopalganj a unit of Jai Prakash University, Chapra. His several research papers have been published in Journals of repute. He has also attended many National and International Seminars.

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**Climate Change**

Exploring Global Opportunities and Challenges

V.K. Ahluwalia

**About the Book**
Climate and weather have been critical to the story of human development. While climate change is clearly a global emergency requiring global solutions, there is increasing understanding of the diverse challenges and opportunities that local communities face in strengthening resilience to its impacts and implications. This book explores the impact of climate change and indentifies the opportunities and challenges of climate change. It also considers the philosophical basis of the climate challenge.

**About the Author**
V.K. Ahluwalia has worked as Professor of Chemistry, University of Delhi, Delhi for more than three decades and taught Graduate, Postgraduate and M.Phil. students. He has guided about 70 students for M.Phil./Ph.D. degrees and has published more than 250 research papers in National and International Journals. He has delivered a number of invited lectures in India and Abroad. Prof. Ahluwalia worked as Post-doctoral Fellow for two years (1960–1962) and worked with Prof. Harold Shechter at the Department of Chemistry, Ohio State University, Ohio, USA and for one year (1980–81) with Professor Herbert C. Brown, Nobel Laureate at the Department of Chemistry, Purdue University, USA. He has also been a Visiting Professor at Dr. B.R. Ambedkar Centre for Biomedical Research University of Delhi, Delhi. Prof. Ahluwalia is author of a number of books on Reaction Mechanism, Green Chemistry, Environmental Chemistry and Organic Synthesis.

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**Renewable Energy in India**

Impacts and Responses for the Built Environmental

V.K. Ahluwalia

**About the Book**
"Renewable Energy in India : Impacts and Responses for the Built Environment" is a useful resource for all designers, homeowners, urban planners, students, artists, architects, landscape architects, engineers, and anyone else interested in a clean energy future. The book specifically analyses the sector outlook for all renewable energy technologies in India. The book evaluates the development of renewable energy sector in India and tries to capture the growth prospects it offers. It also discusses issues on environmental degradation and its reasons and remedies.

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