

Volume 3
Issue 4
July- August 2024

The Mithibai Chronicles






The Mithibai Chronicles is a bimonthly newsletter of Mithibai College Jitendra Library. The main objective of this Newsletter is to provide information about New Arrivals and other library resources to library users. Additionally, it serves as a communication channel between a library and its users. Activities conducted in the library are communicated to the users via this Newsletter. The Mithibai Chronicles will surely quench the thirst of the young, vibrant minds of Mithibai College. We are sure that you will enjoy reading this Newsletter.

***Mrs. Archana Garate
Librarian***

Special Issue on Indian Knowledge System

Newsletter at a Glance

-  **Book Reviews (Page 5-18)**
-  **New Arrivals on IKS (Page 19-21)**
-  **Resources from IKS Division Portal**
 - Link to IKS Videos (Page 22-23)
 - Lectures and Conference Videos (Page 24)
 - Selected Bibliography (Page 25-31)



**Happy
Reading!**

विद्या नाम नरस्य रूपमधिकं प्रच्छन्नगुप्तं धनम्।
विद्या भोगकरी यशः सुखकरी विद्या गुरूणां गुरुः।
विद्या बन्धुजनो विदेशगमने विद्या परं दैवतम्।
विद्या राजसु पुज्यते न हि धनं विद्याविहीनः पशुः॥

अर्थात्

विद्या ही मनुष्य सबसे सर्वोत्तम धन है। ये एक गुप्त धन है, जो दिखायी नहीं देता है।
विद्या गुरुओं की गुरु है, ये अतुल यश प्रदान करने वाली है। विद्या ही देश-विदेश में
मनुष्य की सच्चा बंधु होती है। विद्या गुरुओं की गुरु होती है। विद्या ही सबसे बड़ी देवता
है। राजाओं में विद्या की पूजा होती है, धन की नहीं। अतः जो विद्याविहीन हैं, वे नर नहीं
बल्कि पशु के समान हैं।

न चोरहार्यं न च राजहार्यं न भ्रातृभाज्यं न च भारकारि ।
व्यये कृते वर्धत एव नित्यं विद्याधनं सर्वधनप्रधानम् ॥

Jnana, it cannot be stolen by thieves, nor can it be taken away
by the Kings. It cannot be divided among brothers, it does not
have a weight. If spent regularly, it always keeps growing. The
wealth of KNOWLEDGE is the most superior wealth of all !



From the Editor's Perspective.....

The Ministry of Education, Government of India, with the main objective of familiarizing the Indian Knowledge System to the current generation of learners, focused on incorporating IKS in the curricula of HEIs. The other purpose is to ensure that our ancient knowledge systems, knowledge transmission modes, and a unique perspective (Bhāratīya Drishti) will be utilized to solve India's and the world's current and emerging challenges.

To fulfil these objectives, the Ministry of Education, Government of India introduced the Indian Knowledge System, a new subject, under NEP 2020 in the higher education institutions of India. To assist the HEIs and learners, the Ministry in October 2020 also established the Indian Knowledge Systems Division and its online portal.

The Division was established to promote interdisciplinary research on all aspects of IKS and preserve and disseminate IKS for further research and societal applications. The Division actively spreads the rich heritage of our country and traditional knowledge in the fields of Arts and literature, Agriculture, Basic Sciences, Engineering & Technology, Architecture, Management, and Economics. The Division's portal provides reading materials, videos, bibliographies, newsletters, information on IKS training centers, forthcoming events, conferences and many more things the learners need to know about IKS. This portal not only provides information to the learners but also serves as a place for the librarians to find authentic information sources.

For a decade, Mithibai College Jitendra Library has always strived to conduct unique and special activities for the users. The newsletter, The Mithibai Chronicles, is one of them. The current issue of Mithibai Chronicles focuses on providing information about learning resources available for the Indian Knowledge System. The issue includes books reviews obtained from OpenAI, representative cover pages with the table of contents of IKS books available in the Mithibai College Jitendra Library, and the links to the rich resources available on IKS Division Portal.

I am sure that the Mithibai College learners will find these resources useful, and it will enrich their existing knowledge of IKS.

Mrs. Archana Garate (Librarian)





BOOK REVIEW

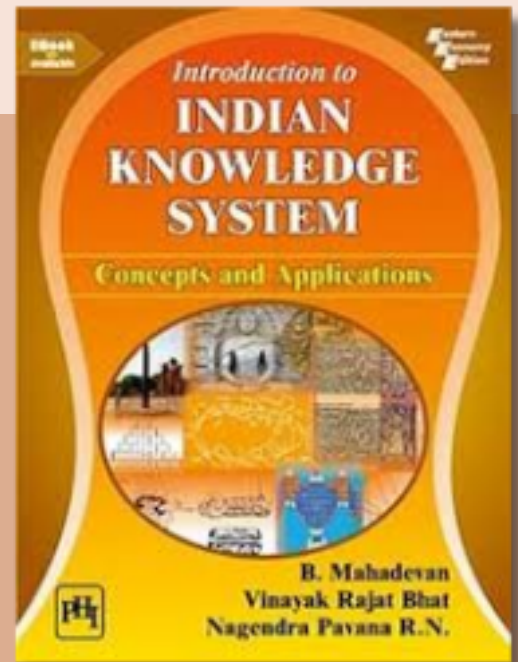
INTRODUCTION TO INDIAN KNOWLEDGE SYSTEM

BY B. MAHADEVAN,
V.R. BHAT &
NAGENDRA P.R.N.

MITHIBAI COLLEGE JITENDRA LIBRARY

CALL NUMBER OF THIS BOOK

001/ MAH/ BHA



B. Mahadevan and V. Bhat's *Introduction to Indian Knowledge System: Concepts and Applications* offers a comprehensive overview of the Indian knowledge system (IKS) and its wide-ranging applicability. Written for undergraduate students, the book seeks to bridge the gap between traditional Indian wisdom and modern academic frameworks, introducing key concepts from ancient Indian traditions while also highlighting their relevance in contemporary society.

One of the book's significant strengths is its accessibility. Despite covering complex philosophical and cultural topics, Mahadevan and Bhat present the material in an approachable manner for undergraduate students. The authors carefully introduce each concept with adequate historical context, ensuring that readers who may not be familiar with Indian philosophy or history can engage with the content. For instance, the early chapters provide a solid introduction to Vedic literature and its contribution to various domains, including philosophy, mathematics, and linguistics. This foundational knowledge is crucial for students as it helps situate the Indian knowledge system within a broader cultural and historical framework.

The authors have done an excellent job of explaining the diverse components of the Indian knowledge system, encompassing not only religious and philosophical thought but also fields such as science, mathematics, and management. The authors clarify that the Indian knowledge system is not a monolithic entity but a diverse collection of ideas, practices, and texts that have evolved over millennia. This multi-disciplinary approach is

BOOK REVIEW

particularly valuable in helping students appreciate the breadth of Indian intellectual traditions, ranging from the Upanishads' metaphysical musings to the practical medical applications found in Ayurveda.

One of the key themes explored in the book is the holistic nature of the Indian knowledge system. Mahadevan and Bhat emphasize that knowledge in the Indian tradition is not fragmented into isolated disciplines, as is often true in the modern Western academic tradition. Instead, Indian knowledge is seen as an interconnected web where philosophy, science, ethics, and daily life are interwoven. This is exemplified in the authors' discussion of the "Trivarga" concept (dharma, artha, and kama) and the broader "Purusharthas" (life goals), which provide an integrated framework for understanding the purpose of human existence and the pursuit of knowledge.

Another notable strength of the book is its focus on the contemporary relevance of ancient Indian knowledge. Mahadevan and Bhat carefully draw connections between traditional concepts and modern-day applications. For example, the authors discuss the significance of the Indian knowledge system in modern management practices, particularly in leadership, decision-making, and ethics. By showing how ancient Indian wisdom can be applied to contemporary challenges in business and leadership, the book becomes not just an academic exercise in historical study but also a practical guide for students looking to apply these concepts in their professional lives.

The book also includes case studies and examples of how Indian knowledge has been applied in modern contexts. These case studies provide concrete examples that illustrate the principles discussed in the book and make the abstract concepts more relatable for students. For instance, the application of yoga and Ayurveda in contemporary healthcare is explored, highlighting how these ancient practices can contribute to holistic well-being in today's fast-paced world. Similarly, the authors examine how traditional Indian mathematical concepts, such as those found in the works of Aryabhata and Bhaskara, have informed modern mathematical theories.

While the book succeeds in introducing readers to the vast scope of the Indian knowledge system, it could benefit from more critical engagement with the limitations or challenges of applying these ancient concepts in a modern context. For instance, while the authors celebrate the holistic and integrative nature of Indian knowledge, they do not delve

BOOK REVIEW

deeply into the potential conflicts or tensions that might arise when traditional Indian ideas are juxtaposed with modern scientific paradigms. A more nuanced discussion of the potential limitations of integrating these two knowledge systems would provide a more balanced perspective.

In terms of structure, the book is well-organized, with each chapter building logically on the previous one. The first few chapters introduce the philosophical foundations of the Indian knowledge system, while later chapters focus on specific applications, such as management, healthcare, and ethics. This structure makes it easy for undergraduate students to follow the progression of ideas, moving from abstract philosophical concepts to concrete applications in various fields.

The inclusion of diagrams, illustrations, and summaries at the end of each chapter further enhances the book's pedagogical value. These visual aids help clarify complex ideas and ensure that students can easily review key concepts. Additionally, each chapter concludes with discussion questions and suggestions for further reading, encouraging students to engage more deeply with the material and explore related topics.

Overall, *Introduction to Indian Knowledge System: Concepts and Applications* is an excellent resource for undergraduate students looking to gain a comprehensive understanding of India's rich intellectual traditions. Mahadevan and Bhat have successfully created a text that is both academically rigorous and accessible, offering students the tools they need to appreciate the depth and diversity of Indian knowledge while also encouraging them to think critically about its modern-day relevance. The book's strengths lie in its clarity, practical examples, and holistic approach to knowledge, making it an invaluable addition to any course on Indian philosophy, history, or management.

Obtained from OpenAI 4o

BOOK REVIEW

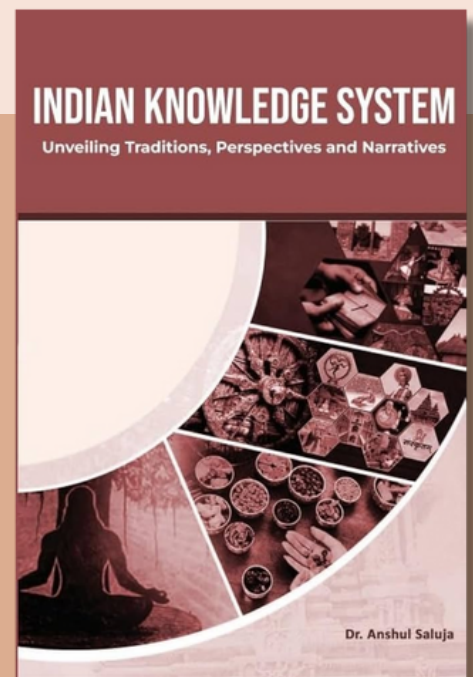
INDIAN KNOWLEDGE SYSTEM: UNVEILING TRADITIONS, PERSPECTIVES, AND NARRATIVES

BY SALUJA, A.

MITHIBAI COLLEGE JITENDRA LIBRARY

CALL NUMBER OF THIS BOOK

001.03/ SAL



A. Saluja's *Indian Knowledge System: Unveiling Traditions, Perspectives, and Narratives* is a thought-provoking exploration of the Indian knowledge system (IKS), offering a multifaceted look at how traditional Indian intellectual frameworks have shaped both historical and contemporary perspectives. This book is especially useful for undergraduate students, as it delves into a wide array of topics, from philosophical traditions to scientific achievements, while also addressing the cultural and social implications of the Indian knowledge system.

Saluja's work is characterized by its deep commitment to understanding IKS not as a static or outdated body of knowledge but as a dynamic system that continues to inform modern intellectual and practical pursuits. One of the key strengths of this book is its emphasis on the evolving nature of IKS, highlighting how ancient Indian ideas have been reinterpreted and repurposed over time to meet changing societal needs.

The book is divided into three major sections: traditions, perspectives, and narratives. In the first section, Saluja provides an overview of key intellectual traditions within the Indian knowledge system, including Vedic philosophy, Ayurveda, and the various schools of Indian metaphysics such as Sankhya, Nyaya, and Vedanta. Saluja's ability to succinctly summarize these complex traditions without oversimplifying them is commendable, making this section accessible to students who may not have prior exposure to these topics. The book's attention to detail in explaining the nuances of these traditions,

BOOK REVIEW

particularly their epistemological and ontological underpinnings, allows students to engage critically with the material.

The second section of the book, "Perspectives," is perhaps its most innovative contribution. Here, Saluja examines the Indian knowledge system from a variety of interdisciplinary perspectives, including its intersections with science, technology, and social ethics. One of the most compelling chapters in this section explores the relationship between ancient Indian cosmology and modern physics, particularly in terms of concepts like time, space, and the origin of the universe. By juxtaposing classical Indian cosmological views with contemporary scientific theories, Saluja opens up new avenues for thinking about the relevance of ancient knowledge in modern scientific discourse.

The third section, "Narratives," shifts focus to the stories, myths, and historical accounts that have played a central role in shaping Indian knowledge. Saluja discusses the role of the Mahabharata and Ramayana not only as epic narratives but also as repositories of ethical, political, and social knowledge. This section is particularly engaging for students, as it connects abstract philosophical and scientific ideas to concrete cultural stories that continue to have relevance in Indian society today. Through this exploration, Saluja highlights the ways in which narratives have functioned as vehicles for transmitting knowledge across generations, ensuring the continuity of IKS.

One of the book's central arguments is that IKS should not be seen in opposition to modern knowledge systems but rather as complementary. Saluja contends that Indian knowledge traditions offer valuable insights that can enhance contemporary debates on ethics, sustainability, and social justice. For instance, the book discusses how Gandhian principles, which are deeply rooted in the Indian knowledge system, offer alternative frameworks for thinking about development and economics in the context of global environmental challenges. This focus on the practical applications of IKS in addressing modern-day issues is a significant strength of the book.

However, while the book excels in drawing connections between ancient and modern knowledge, it sometimes lacks a critical lens when discussing the limitations of IKS. For example, while Saluja celebrates the richness of Indian metaphysics and cosmology, the book does not fully address how some of these ideas have been challenged or revised in

BOOK REVIEW

light of contemporary scientific discoveries. A more balanced approach that acknowledges both the strengths and limitations of IKS would provide students with a more nuanced understanding of the subject matter.

The writing style in *Indian Knowledge System: Unveiling Traditions, Perspectives, and Narratives* is clear and engaging, making it well-suited for undergraduate students. Saluja uses accessible language while maintaining academic rigor, ensuring that students can engage with the material without feeling overwhelmed by jargon. The inclusion of diagrams, tables, and charts further aids in the comprehension of complex concepts, and the discussion questions at the end of each chapter encourage students to reflect critically on the material.

A. Saluja's *Indian Knowledge System: Unveiling Traditions, Perspectives, and Narratives* is an insightful and well-structured exploration of the Indian knowledge system. Its interdisciplinary approach, blending philosophy, science, and cultural studies, makes it an ideal text for undergraduate courses on Indian knowledge or intellectual traditions. While the book could benefit from a more critical analysis of the limitations of IKS, its strengths lie in its ability to make ancient knowledge relevant to contemporary issues and its accessible presentation of complex ideas. This book provides a solid foundation for students interested in understanding the intersections of tradition and modernity.

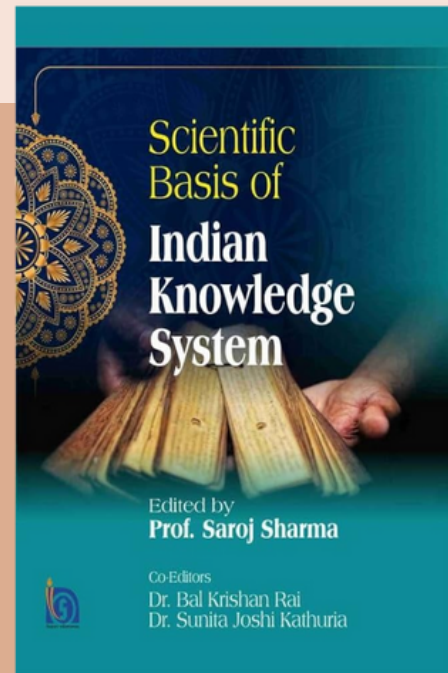
Obtained from OpenAI 4o

BOOK REVIEW

SCIENTIFIC BASIS OF INDIAN KNOWLEDGE SYSTEM

BY SAROJ SHARMA & BAL KRISHNAN RAI

MITHIBAI COLLEGE JITENDRA LIBRARY
CALL NUMBER OF THIS BOOK
001/ SHA/ RAI



S. Sharma and B. Rai's *Scientific Basis of Indian Knowledge System* is a comprehensive and insightful text that attempts to bridge the gap between traditional Indian knowledge systems (IKS) and modern scientific inquiry. Designed primarily for undergraduate students, the book delves into the scientific principles embedded within various aspects of IKS, particularly in fields such as medicine, mathematics, astronomy, and agriculture. Through its interdisciplinary approach, the book demonstrates that the Indian knowledge system, which is often regarded as spiritual or mystical, also has a solid empirical and scientific foundation.

One of the most compelling aspects of this book is its ability to provide a scientific lens to examine IKS. Sharma and Rai begin by introducing the historical context of the Indian knowledge system, thoroughly examining its development from the Vedic period to modern times. They argue that much of what is today considered part of scientific disciplines has roots in ancient Indian practices. For instance, the text explores the advancements made in Indian astronomy, emphasizing the accuracy of astronomical predictions made by ancient scholars such as Aryabhata and Bhaskara and how their observations have informed modern astronomical practices.

The authors highlight the significance of texts such as the Vedas, Upanishads, Siddhantas and treatises like the *Aryabhatiya* in explaining natural phenomena through empirical methods. While the spiritual and philosophical aspects of these texts are often emphasized, Sharma and Rai underline that these works also offer a sophisticated

BOOK REVIEW

understanding of mathematics and astronomy. By connecting these contributions to modern scientific practices, the authors provide a nuanced understanding of the mathematical and astronomical foundations of IKS.

A significant portion of the book is devoted to the examination of Ayurveda, the traditional Indian system of medicine. Sharma and Rai argue that Ayurveda is not merely a holistic, spiritual approach to health but also deeply rooted in scientific principles of anatomy, physiology, and biology. The text emphasizes the importance of balance in the three doshas (Vata, Pitta, and Kapha) as an early form of understanding the body's homeostasis. The authors also discuss the Sushruta Samhita and Charaka Samhita, ancient Ayurvedic texts, which describe surgical techniques and medical practices that are still relevant today. They show how the diagnostic methods and therapeutic strategies mentioned in these ancient texts were based on observation, trial, and error—hallmarks of the scientific method.

Moreover, the book makes a strong case for the relevance of Ayurveda in the modern world, particularly in terms of personalized medicine. The authors highlight how ancient Ayurvedic practitioners recognized the uniqueness of individuals and tailored their treatments accordingly—an approach that resonates with modern medical practices like precision medicine. Sharma and Rai also discuss recent scientific studies that have validated the efficacy of Ayurvedic treatments, particularly in managing chronic diseases and promoting preventive healthcare.

Another key strength of the book is its treatment of agricultural science within the Indian knowledge system. Sharma and Rai explore the traditional agricultural practices informed by ecological understanding and sustainability—concepts that have regained prominence in contemporary discussions of environmental science. For example, the use of crop rotation, organic farming methods, and the emphasis on biodiversity are shown to have been integral to ancient Indian agricultural practices. The authors argue that these practices, grounded in sustainability and resource conservation, offer valuable lessons for modern agriculture, especially in climate change and environmental degradation.

The book also ventures into the field of Indian metallurgy and material science, highlighting the sophisticated techniques used in producing high-quality steel, such as the

BOOK REVIEW

famous Wootz steel. The authors explore the scientific principles behind the extraction and processing of metals in ancient India, emphasizing how metallurgical advancements contributed to the development of tools, weapons, and infrastructure. The chapter on material science is particularly illuminating as it underscores how ancient Indian metallurgists were able to manipulate materials at a molecular level to produce superior products long before modern science formalized the field of materials engineering.

However, while the book makes a convincing argument about the scientific foundations of IKS, it occasionally presents these contributions in an overly celebratory manner. The authors, at times, do not adequately critique the limitations of these ancient practices, nor do they sufficiently address the challenges of integrating IKS with modern scientific methodologies. While the book shows the scientific merit of many traditional Indian practices, it could benefit from a more balanced approach that acknowledges where these systems diverge from contemporary scientific paradigms.

Structurally, the book is well-organized, with each chapter focusing on a specific aspect of IKS, whether it be medicine, mathematics, astronomy, or material science. This compartmentalization allows students to engage with each topic independently, making it easier to grasp complex ideas. Additionally, diagrams, charts, and tables are highly effective in illustrating the scientific principles discussed in the text. For example, the visual representation of Aryabhata's astronomical models and the anatomical diagrams from ancient Ayurvedic texts reinforce the scientific rigour of these early Indian contributions.

Another pedagogical strength of the book is that it includes discussion questions and case studies at the end of each chapter. These elements encourage students to engage with the material critically, promoting deeper reflection on how traditional knowledge can be applied or challenged in modern scientific contexts. Furthermore, the authors include numerous references to contemporary scientific studies that have validated certain aspects of IKS, which helps to situate the book within ongoing academic debates about the relevance of traditional knowledge systems.

BOOK REVIEW

Regarding accessibility, Sharma and Rai have done a commendable job in writing for an undergraduate audience. The language is clear and straightforward, and the concepts are introduced progressively, making it easier for students new to IKS or the history of science to follow along. While the subject matter is undoubtedly complex, the authors' ability to break down intricate scientific and historical concepts into digestible sections makes the book highly effective as an introductory text.

Scientific Basis of Indian Knowledge System by S. Sharma and B. Rai is an indispensable resource for undergraduate students interested in exploring the intersection of traditional Indian knowledge and modern scientific inquiry. The book demonstrates that many aspects of IKS are grounded in empirical observation and scientific principles while offering practical applications in medicine, agriculture, and material science. Although it could benefit from a more critical analysis of the limitations of IKS, the book's comprehensive approach, clear structure, and pedagogical tools make it a valuable addition to the study of India's intellectual heritage. By emphasizing the scientific rigour of ancient Indian practices, Sharma and Rai position IKS as a relevant and dynamic system that continues contributing to contemporary scientific discourse.

Obtained from OpenAI 4o

BOOK REVIEW

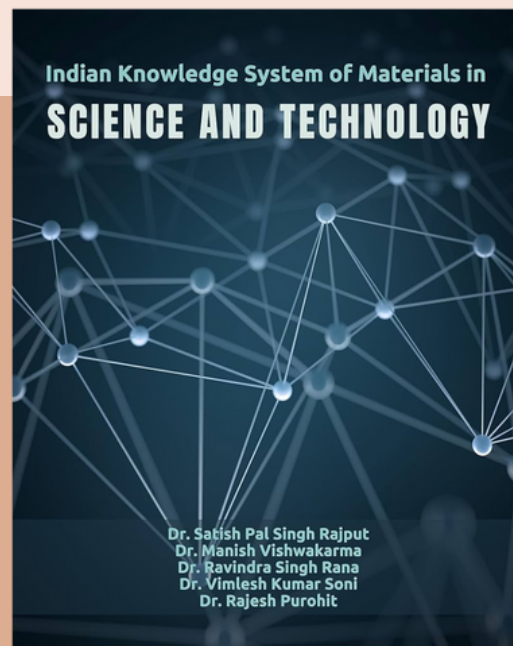
INDIAN KNOWLEDGE SYSTEM OF MATERIALS IN SCIENCE AND TECHNOLOGY

BY S. RAJPUT & M. VISHWAKARMA

MITHIBAI COLLEGE JITENDRA LIBRARY

CALL NUMBER OF THIS BOOK

001.05/ RAJ/ VIS



S. Rajput and M. Vishwakarma's Indian Knowledge System of Materials in Science and Technology thoroughly explore the rich tradition of material science and engineering within the Indian knowledge system (IKS). This book, designed for undergraduate students, offers a detailed examination of how ancient Indian materials science has informed the development of metallurgy, textiles, ceramics, and other technological advancements that continue to resonate in modern times. By focusing on the empirical foundations of these traditional technologies, Rajput and Vishwakarma aim to highlight the scientific sophistication of Indian material culture and its contributions to the global history of science.

The book begins by situating the Indian knowledge system within the broader context of technological advancements in ancient civilizations. The authors emphasize that India's contributions to material science were not isolated developments but part of a larger tradition of technological exchange, particularly with cultures in the Middle East, China, and later Europe. By framing India's material innovations within a global context, Rajput and Vishwakarma challenge the notion that ancient Indian technologies were static or insular. Instead, they demonstrate that the Indian knowledge system was dynamic, evolving in response to environmental challenges, economic demands, and cultural exchanges.

One of the key strengths of the book is its detailed treatment of ancient Indian metallurgy, particularly the production of Wootz steel, a high-quality crucible steel that

BOOK REVIEW

was prized for its strength and durability. The authors explain the smelting and forging processes used to create Wootz steel, emphasizing the scientific principles underpinning its production. By examining the microstructure of Wootz steel and its unique carbon distribution, Rajput and Vishwakarma make a compelling case for the advanced metallurgical knowledge of ancient Indian blacksmiths. The book also explores the historical significance of Wootz steel, traded across the Middle East and Europe, influencing the development of Damascus steel and other high-carbon steel technologies.

The chapter on ceramics and pottery is another highlight of the book. The authors delve into the chemical and physical processes involved in pottery production, from the selection of clay to the firing techniques used in kilns. They draw attention to the scientific understanding of thermal expansion, shrinkage, and vitrification that ancient Indian potters had developed and how these concepts were applied to produce durable and aesthetically pleasing ceramics. The book also touches on the cultural significance of pottery in Indian society, linking material science with artistic and ritualistic practices. This interdisciplinary approach, which combines scientific analysis with cultural history, makes the book particularly engaging for undergraduate students.

In addition to metallurgy and ceramics, the book also covers traditional Indian textile science, particularly the production of cotton, silk, and wool fabrics. Rajput and Vishwakarma highlight the sophisticated weaving techniques and dyeing processes used by ancient Indian artisans, noting how these textiles were renowned for their quality and were highly sought after in global trade networks. The authors explain the chemical reactions involved in natural dyeing processes, particularly using plant-based dyes like indigo and madder, and how these practices align with modern principles of organic chemistry. By connecting traditional textile production with contemporary scientific knowledge, the authors underscore the enduring relevance of these ancient techniques in today's sustainable fashion and textile industries.

One of the unique contributions of this book is its focus on sustainable practices within the Indian knowledge system. Rajput and Vishwakarma argue that traditional Indian material science was inherently sustainable and grounded in environmental stewardship and resource conservation principles. For instance, the book discusses the use of renewable materials like

BOOK REVIEW

bamboo and jute in construction and crafts, highlighting how these materials were valued for their practicality and ecological sustainability. The authors contend that these traditional practices offer valuable lessons for contemporary material science, particularly in the global shift towards sustainability and green technologies.

While the book excels in its detailed descriptions of traditional Indian material science, it occasionally falters in discussing how these technologies evolved in response to external influences. Although the authors acknowledge the importance of trade and cultural exchange, they do not provide enough analysis of how Indian material science interacted with or influenced other technological traditions, particularly in the post-colonial period. A more in-depth exploration of these cross-cultural interactions would give students a fuller understanding of the global significance of Indian material science.

Furthermore, the book could benefit from a more critical engagement with the challenges of integrating traditional Indian material science with modern technological advancements. While Rajput and Vishwakarma make a strong case for the scientific basis of traditional practices, they do not adequately address how these technologies can be updated or modified to meet the demands of contemporary material science. A more thorough discussion of how ancient techniques can be adapted to modern production methods would enhance the book's practical relevance for students interested in careers in engineering or materials science.

Pedagogically, the book is well-structured, with each chapter focused on a specific material or technological domain. This structure allows for a clear progression of ideas, making it easier for students to grasp the connections between different aspects of material science. Using diagrams, photographs, and charts is particularly effective in illustrating the technical processes discussed in the text. For example, the diagrams showing the molecular structure of different types of steel or the chemical composition of natural dyes help to clarify complex scientific concepts, making the material more accessible to undergraduate readers.

The inclusion of case studies and practical examples also enhances the book's pedagogical value. Each chapter includes real-world applications of the traditional technologies discussed, showing how these ancient practices continue to influence modern industries. For instance,

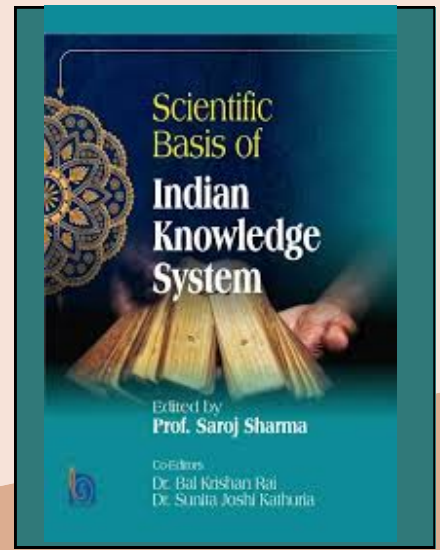
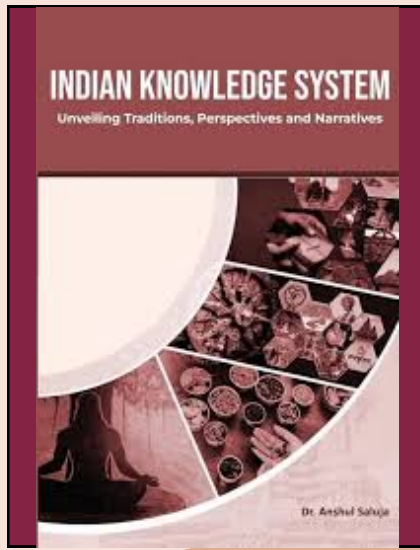
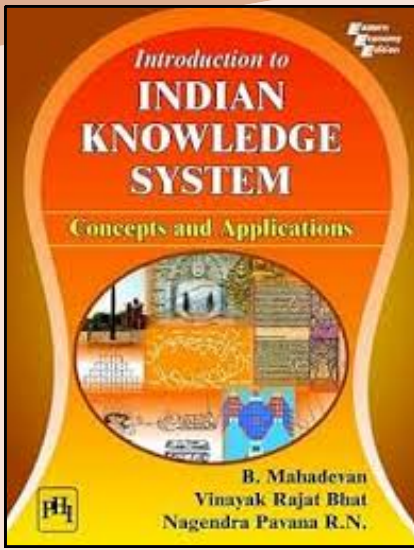
BOOK REVIEW

the case study on the use of natural dyes in sustainable fashion brands demonstrates how traditional knowledge is being revived in contemporary contexts, making the book relevant not only to students of history or science but also to those interested in modern applications of traditional technologies.

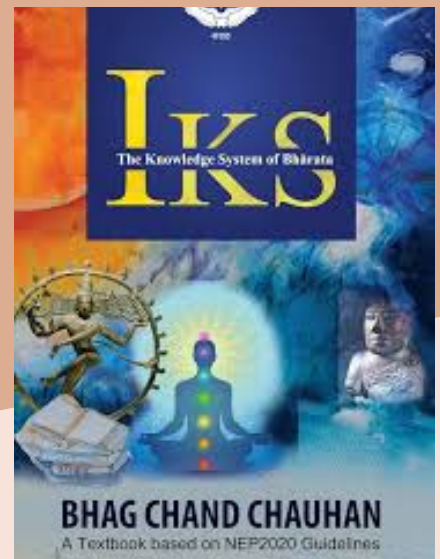
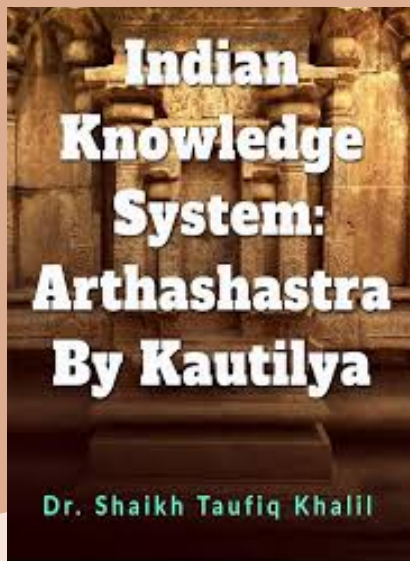
Indian Knowledge System of Materials in Science and Technology by S. Rajput and M. Vishwakarma is an essential text for undergraduate students interested in exploring the scientific foundations of India's material culture. The book provides a detailed and accessible examination of traditional Indian technologies, from metallurgy to textiles, while also highlighting their relevance in modern science and industry. Although the book could benefit from a deeper analysis of cross-cultural influences and modern applications, its strengths lie in its clear explanations, interdisciplinary approach, and focus on sustainability. For students interested in material science, engineering, or Indian history, this book offers a valuable resource that bridges the gap between traditional knowledge and contemporary scientific inquiry.

Obtained from OpenAI 4o

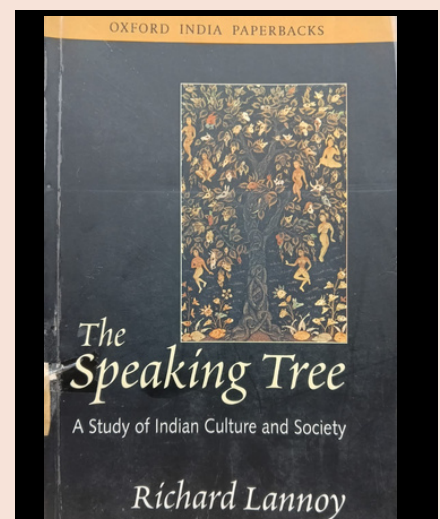
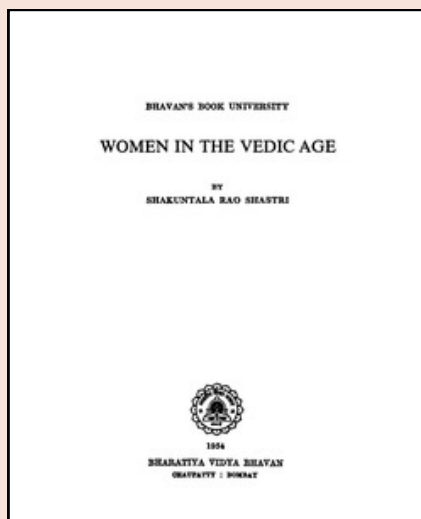
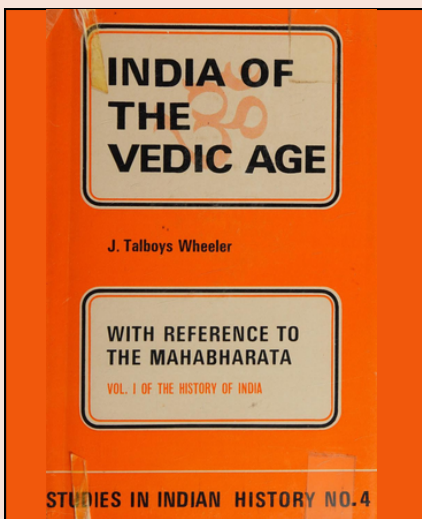
NEW ARRIVALS



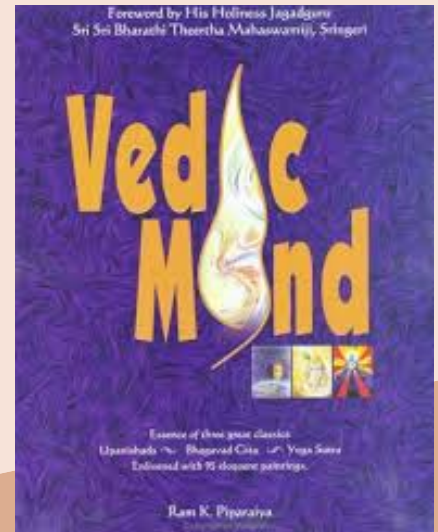
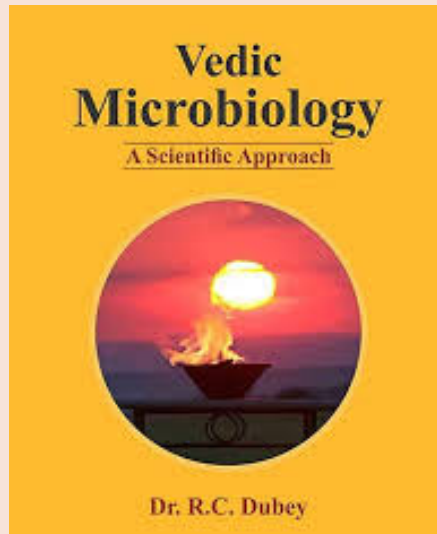
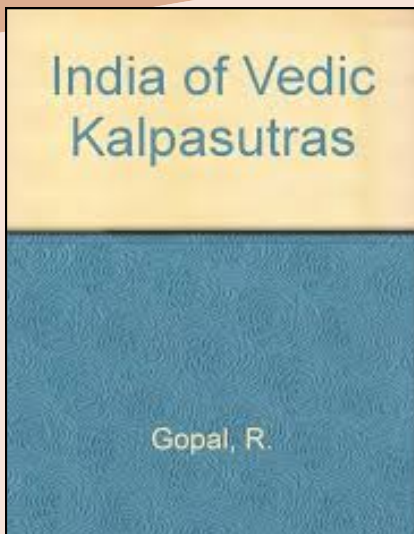
Click on the Book cover to view the Contents



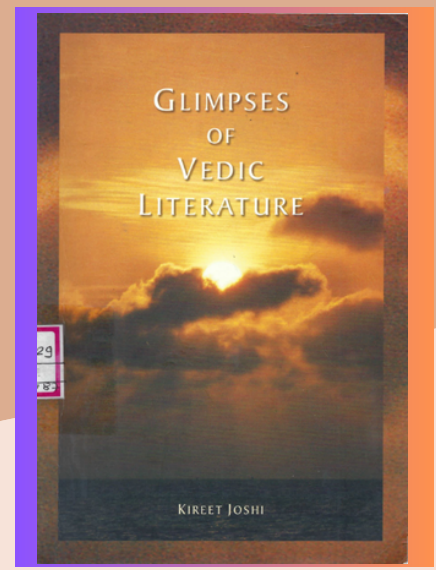
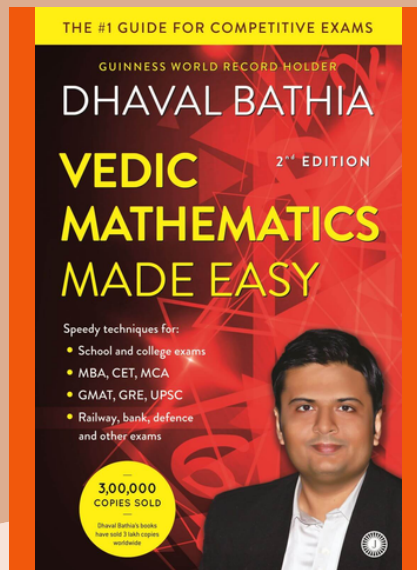
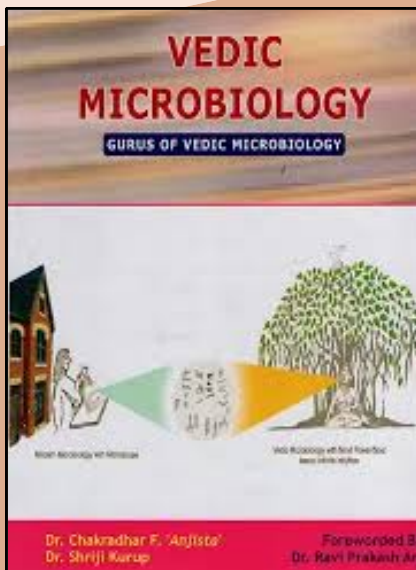
Click on the Book cover to view the Contents



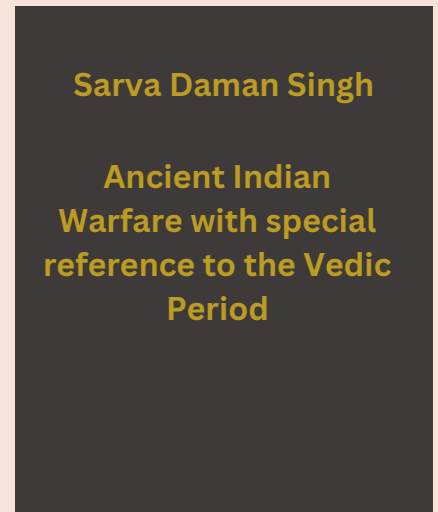
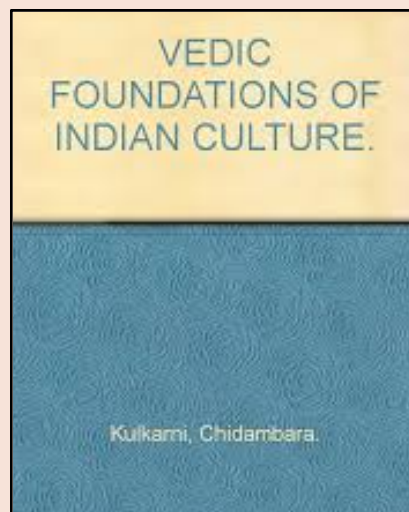
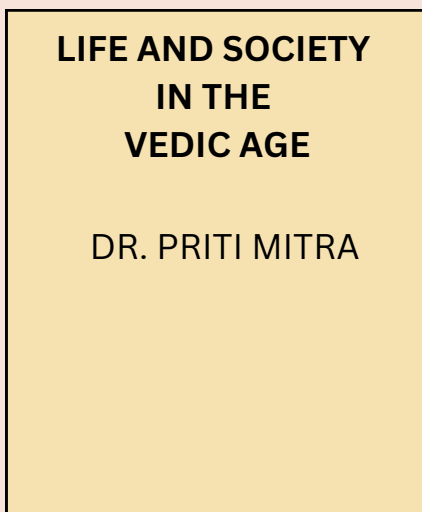
NEW ARRIVALS



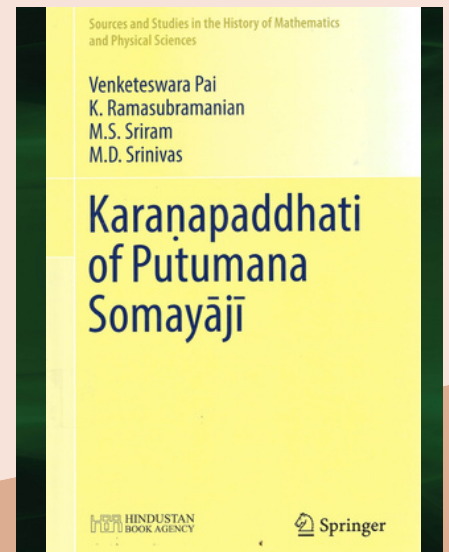
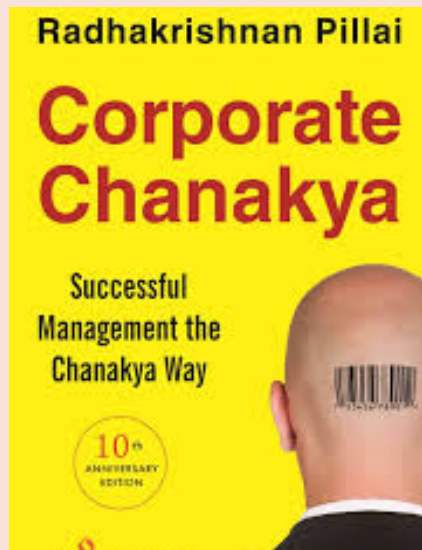
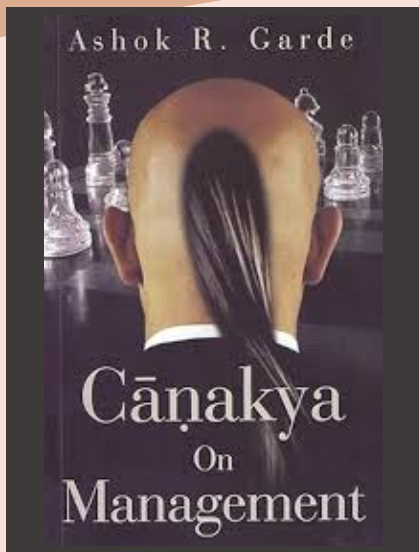
[Click on the Book cover to view the Contents](#)



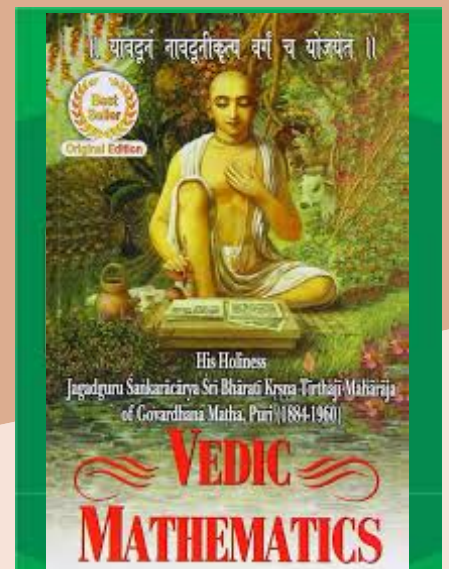
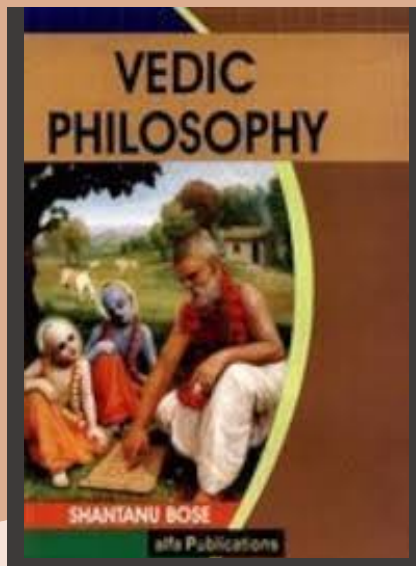
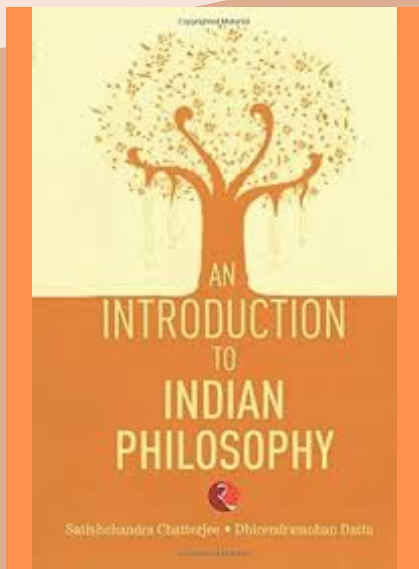
[Click on the Book cover to view the Contents](#)



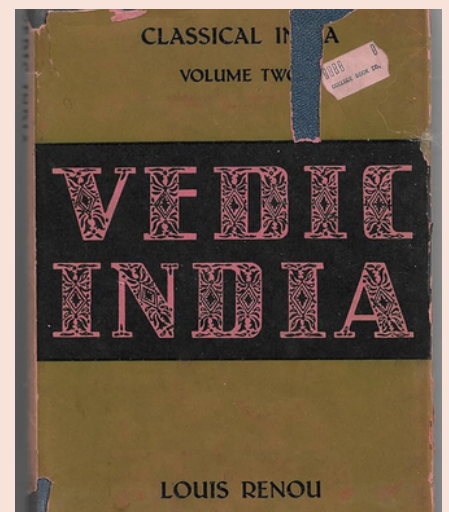
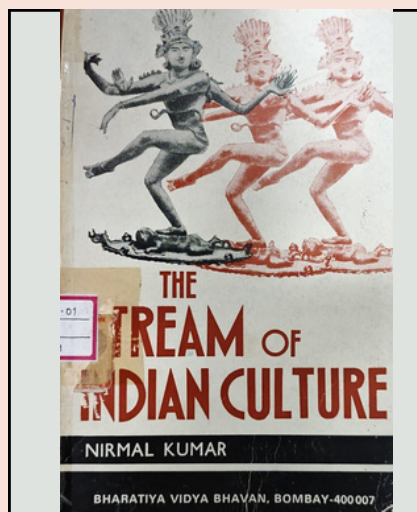
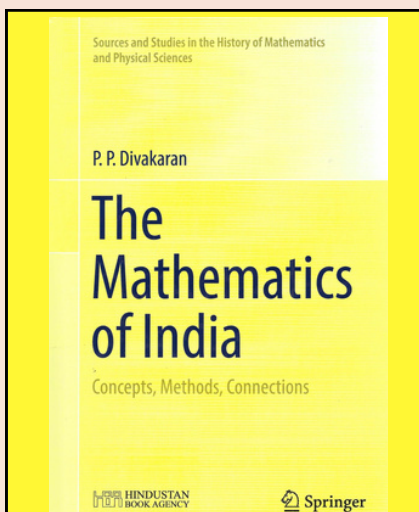
NEW ARRIVALS



Click on the Book cover to view the Contents



Click on the Book cover to view the Contents



RESOURCES FROM IKS DIVISION PORTAL

LINKS TO IKS VIDEOS

Sr. No.	Video Title	Video Link
1	Anviksiki Logic and Disputation - Schools & Thinkers Srinivas Jammalamadaka IIT KGP	https://youtu.be/c0pOAPuJx4c
2	Architectural Applications and the Way Forward I IIT KGP Ar. Aabhas Maldahiyar	https://youtu.be/1vITJDUNTsE
3	Bharatiya Jnana Pranali: Sambhavana evam Abhigraha - Opportunities Raghava Krishna	https://youtu.be/x94Z117AFTg
4	Civilizational Reawakening & Indian Knowledge System - Panel 1 #SangamTalks	https://youtu.be/4FE3QzmIJTQ
5	Cogent Statement of Knowledge and Ideas - Indian Astronomy Prof. K Ramasubramanian IIT KGP	https://youtu.be/Fn6k2zeIX70
6	Cogent Statement of Knowledge and Ideas Dr Prabhakar Rao	https://youtu.be/BUmnh26UFYg
7	Cogent Statement of Knowledge and Ideas Dr. Mansee Bal Bhargava	https://youtu.be/QmNk-fn10QY
8	Cogent Statement of Knowledge and Ideas Prof Kapil Kapoor IIT-K	https://youtu.be/YuhIRVhWHC4
9	Ganita - Sources, Texts, Schools & Thinkers Dr Aditya Kolachana IIT KGP	https://youtu.be/Ldy8M-aRFtY
10	Gautama's Nyayasutra: India's Epistemological work Prof. K Ramasubramanian IIT KGP	https://youtu.be/HTrFTAjXr_0
11	History & Development of Ganita - Ancient to Modern Prof Somesh Kumar IIT KGP	https://youtu.be/CA6DkdITr28
12	History of Indian Knowledge Systems Prof B mahadevan IIT KGP	https://youtu.be/3qA3bJEPHXg
13	IKSFDP2022 - Bauddhik Atma Nirbharta- Inauguration IIT KGP	https://youtu.be/liCQJLHntUk
14	IKSFDP2022- Bauddhik Atma Nirbharta- Inauguration Gautam Desiraju Sriram Balasubramanian IIT KGP	https://youtu.be/afM3Fk7v-JI
15	Inaugural Ceremony: The Imperative and Institutionalization of IKS #SangamTalks	https://youtu.be/0ZnJV03TfVE

Sr. No.	Video Title	Video Link
16	Indian Astronomy - Sources and Texts Dr Raj Vedam IIT KGP	https://youtu.be/xkiD18QYLJ0
17	Indian Astronomy- Application and Way Forward Prof. M S Sriram IIT KGP	https://youtu.be/eUwTNbueXjA
18	Kṛṣi Vijñāna (Agriculture) Prof. Ganti S Murthy IIT KGP	https://youtu.be/7ryjIs64DBs
19	Panel II: IKS in 21st Century Education	https://youtu.be/KfJvFg9k7rQ
20	Schools & Thinkers of Indian Astronomy Dr Mahesh K IIT KGP #SangamTalks	https://youtu.be/A6WpdZyase8
21	Sources, Texts, Schools & Thinkers Prof Rani Sadasiva Murty IIT-Kharagpur	https://youtu.be/OKkfdg-pvRM
22	The Knowledge System of Vedanta Swami Medhananda IIT KGP	https://youtu.be/dSJZTPZUNI8
23	The Present and Future of IKS based on Directives & Strategies Dr. Atul Kothari	https://youtu.be/PfcGWWKoo_Y
24	Transforming Indian Education System Dr. Subhas Sarkar #SangamTalks	https://youtu.be/Y_joOHh58Us
25	Vastu & Nirman Vidya: Systems & Practices IIT KGP Prof Shankha Pratim Bhattacharya	https://youtu.be/7HDLxCfm7U0
26	Vastukala & Astronomy IIT KGP Smt Sashikala Ananth	https://youtu.be/h05uH3VlArU
27	Vastukala (Architecture) IIT KGP Prof. Joy Sen	https://youtu.be/928zusw6kHk
28	कला का समाज सृजन में योगदान सोनल मानसिंह #SangamTalks_Hindi	https://youtu.be/LVbFhNZv2xw
29	भारत बोध- शिक्षा का विस्तार प्रो. गीता सिंह #SangamTalk_Hindi	https://youtu.be/ANQtyq3LXF0
30	भारतीय चेतना - सनातन गंगा प्रवाह प्रो कपिल कपूर #SangamTalks_Hindi	https://youtu.be/lU1rkLbSxW0
31	भारतीय ज्ञान परम्परा की आवश्यकता डॉ. अनिल सहस्रबुद्धे #SangamTalks_Hindi	https://youtu.be/XqyX6qXqHxE
32	शिक्षा परम्परा व राष्ट्र निर्माण मुकुल कानिटकर #SangamTalks_Hindi	https://youtu.be/qYRPCBV3UCg



RESOURCES FROM IKS DIVISION PORTAL

LECTURES AND CONFERENCE VIDEOS AVAILABLE ON IKS DIVISION PORTAL

[Click here to view the Videos.](#)

Sr.	Theme	Video Title & Sub-titles
1	Mathematics	Indian Contribution to Mathematics through Ages
2	Indian Calendar	Two Day National Conference & Exhibition on The National Calendar of India
3	Indian Astronomy	Session on Khagol Vigyan in BHARAT TIRTHA- II: International Conference on Indian Knowledge Systems
4	IKS Mela	Annual Conference and Exhibition on IKS (Overall)
5	Ayurveda	DHARA Vision Ayurveda 2047
6	Martial Arts	NATIONAL MARTIAL ARTS MELA
7	Maritime Traditions	Day 1: Samudramanathan A Dhara Event on Maritime Traditions - Inauguration
		Day 2: Samudramanathan: DHARA Event on Maritime Tradition by IKS Division, Min of Edu & Min of Culture
		Day 3: Samudramanathan: A DHARA Event by IKS Div of Min of Edu with Min of Culture
		India's Maritime History Glorious past To Prosperous Future Anand Narsimhan
		Bāli Jātrā Indias Glorious Maritime History Sanjeev Sanyal DHARA Samudramanathan
8	Music and Dance	DHARA Event: Sangita & Natya Parampara IKS Div of Min of Edu with Min of Culture
		Cultural Programmes DHARA- Sangita & Natya Parampara IKS Div of Min of Edu with Min of Culture
		DHARA Event: Sangita & Natya Parampara IKS Div of Min of Edu with Min of Culture Day 2
		Upanishadic Poetry and Sangeet Cultural Program DHARA Natya & Sangita Conference
		Sangita & Natya Programs: Organisation & Management Issues Dr Radha Bhaskar
		Philosophy of Arts and National Integration Dr Padma Subrahmanyam DHARA IKS
9	Indian Chemistry (Rasāyanaśāstra)	Ganesh Pancharatnam Recital DHARA Sangita & Natya Parampara Conference Min of Culture
		Bharatiya Rasayanasastra Inauguration Prof G Murthy Prof M Sahu Prof V Tripathi Prof PK Jain
		Medicinal Chemistry Dr G. Meera Dr R Geetha Sudheer Prof D.S Gautam
		Perfumery Vaidya Jayant Deopujari Smt. Veena Agnihotri #sangamtalks
		Bharatiya Rasayanasastra: Colours Part 1 N Sivaraman AJ Vivek C.K. Sreekuttan Nair K Bihari Singh
		Construction Materials Dr Manoj Gundanna Dr V Suresh Prof V Ramanathan
		Bharatiya Rasayanasastra: Colours Part 2 Gaurav Kesarvani Dr Jasminder Kaur Dr Sunil Vishwakarma
		Text & Philosophy of Indian Chemistry Prof HR Tripathi Prof N Gupta Prof KK Singh Dr A Dixit
Traditional Folk songs based on Holi, the festival of colours by Dr. Mannu Yadav (Lok Kala Visharad)		
10	Metallurgy (Dhatushastra)	Bharatiya Rasayanasastra: Valedictory Prof Vijay Shankar Shukla Prof Vikas Dubey Dr Anuradha C
		Metallurgy: Past, Present and Future National Conference on DHARA BHARATIYA DHATU SHASTRA
		Metallurgy of Iron and steel: Past, Present & Future National Conference-DHARA BHARATIYA DHATU SHASTRA
		Ferrous & Nonferrous metallurgy from ancient times National Conference-DHARA BHARATIYA DHATU SHASTRA
		Metallurgy in medicine, space, energy & allied areas National Conference-DHARA BHARATIYA DHATU SHASTRA
11	Krishi (Agriculture)	कबीर संध्या -Shri Kaluram Bamaniya Valedictory National Conference - DHARA BHARATIYA DHATU SHASTRA
		NATIONAL CONFERENCE DHARA BHARATIYA PARAMPARIK KRISHI MELA
		An Introduction to Traditional Knowledge Systems Intellectual Property & People's Rights (Workshop-I, II, III)
		IKS FDP on India's Knowledge Systems: Sources, Theories, Concepts and Practices (FDP_IKS:STCP 2021)
		Faculty Development Programme (FDP)
		Faculty Development Program 2021 in India's Knowledge Systems (IKS)
		Faculty Development Programme (FDP)
		Faculty Development Programme (FDP) (33 Sessions Videos)
		Faculty Development Programme (FDP)
		Faculty Development Programme (FDP)
		Faculty Development Programme (FDP)

RESOURCES FROM IKS DIVISION PORTAL

SELECTED BIBLIOGRAPHY ON INDIAN KNOWLEDGE SYSTEM

Sr. No.	Title	Author	Publisher	Year	Price	ISBN
1	Traditional Knowledge System in India	Amit Jha	Atlantic Publishers and Distributors Ltd	2024	1195.00	978-8126912230
2	An Introduction to Indian Philosophy	Satishchandra Chatterjee	Rupa Pub.	2023	295.00	978-8129111951
3	Ancient India - Its Language And Religions	Oldenberg H	Gyan Publishing House	2023	260.00	978-8121289818
4	Methodology of Ancient Indian Science	Prof.W.k.lele	Chaukhambha surbharati Prakashan	2023	1550.00	978-9382443391
5	The Idea of Ancient India - Essays on Religion, Politics, and Archaeology	Singh Upinder	Vintage Books	2023	599.00	978-0143461531
6	The India They Saw - 4 vol set	Jain Sandhya	Prabhat Prakashan Pvt. Ltd.	2022	3000.00	-
7	Ancient Indian Architecture	Sanjev Maheshwari, Rajeev Garg	CBS Publishers & Distributors Pvt Ltd	2021	-	978-8123907659
8	Chanakya Niti Shastra: The best book to become successful in Business, Politics, War and in every turn of your Life: 8 (Ancient Indian Esoteric Science)	Mohan Kumar (Author), Mohan Murari (Preface), Pramila Devi (Introduction)	Independently Published	2021	2939.00	979-8744610616
9	Indians: A Brief History of a Civilization	Namit Arora	Penguin Viking	2021	599.00	978-0670090433
10	Once Upon A Time In Bharatha Desham	Mahesh N Kotekere	Notion Press	2021	319.00	978-1638066026
11	Principles and Applications of Vastu Shastra: The Ancient Indian Science Of Architecture and Layout For Today's Modern World	Bangalore Niranjan Babu Bangalore Niranjan , Dr. B.V. Raman	-	2021	4100.00	978-1608692620
12	Vedic World and wonders of Ancient Science	Pradeep Parihar	Wordhouse Book Publishing	2021	1691.00	978-1685470012

Sr. No.	Title	Author	Publisher	Year	Price	ISBN
13	Ancient And Medieval Indian Thought : Themes And Traditions	Ankit Tomar , Suratha K. Malik	SAGE Publications India Pvt Ltd	2020	525.00	978-9353882310
14	Indian Superstitions and Traditions: An Ancient Science	Akshay Bavda	Notion Press	2020	173.00	978-1636334233
15	Maharsi Bharadvaja's BRHAD IMANASASTRA (Ancient Indian Science of Aeronautics) Sanskrit Text, English Translation, Notes & Appendices	B. S. Bist Rev. Ed. Shrikrishan Jugnu	Parmil	2020	660.00	978-8171106820
16	Pracheen Bharatiya Vigyan aur Proddhogiki: Ancient Indian Science and Technology	Dr. Shiv Swaroop Sahai	Motilal Banarsidass	2020	350.00	978-8120839786
17	Science in Ancient India: Reality versus Myth	Breakthrough Science Society	Breakthrough Science Society (BSS)	2020	60.00	Only Kindle edition available
18	Ancient Hindu Science	Alok Kumar	Jaico Publishing House	2019	450.00	978-9388423953
19	Ancient Indian Knowledge: Implications To Education System	Boski Singh	LAP Lambert Academic Publishing	2019	5067.00	978-6200086693
20	Ancient Indian Scientific Thought and Modern Theories	Sanjit Kumar Sadhukhan Dhirendranath Banerjee	D.K. Print World Ltd	2019	350.00	978-9380829661
21	A History of Indian Philosophy - Vol. 1	Surendranath Dasgupta	Motilal Banarsidass	2018	695.00	978-9353041083
22	A History of Indian Philosophy - Vol. 2	Surendranath Dasgupta	Motilal Banarsidass	2018	795.00	978-9353041090
23	A History of Indian Philosophy - Vol. 3	Surendranath Dasgupta	Motilal Banarsidass	2018	795.00	978-9353041106
24	Ancient Indian Philosophy and Modern Science	Pramod Kumar Agrawal	Universal Theory Research Centre	2018	-	978-8192037332

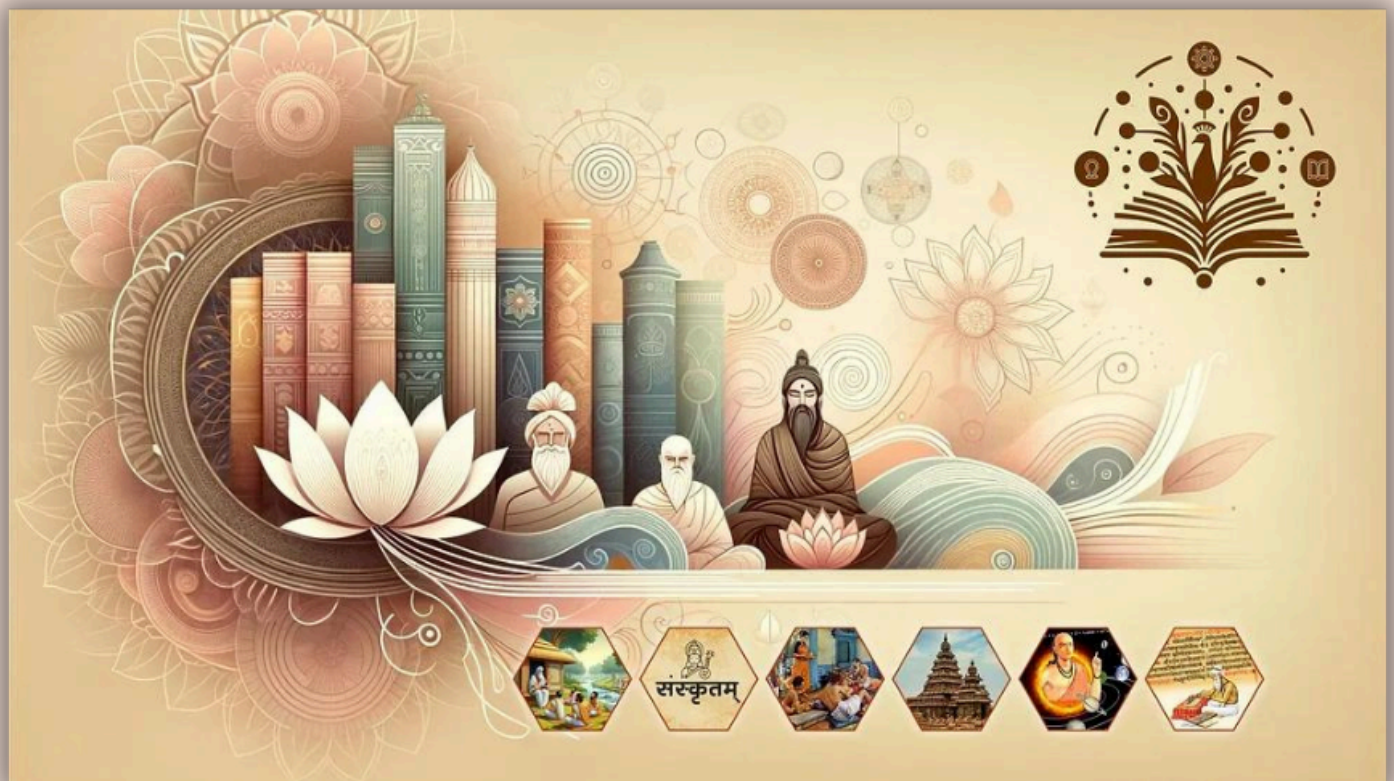
Sr. No.	Title	Author	Publisher	Year	Price	ISBN
25	Energy Science in Vedas - A treatise on Vedic thermodynamics and free energy	Ramesh Kumar Menaria	Parimal Publication	2018	1170.00	-
26	Indian Alphabet: Calligraphic History and Mystic Function of the Brahmi Writing System	Mark Jackson	Green Magic Publishing	2018	2050.00	978-0995547834
27	Indian Cultures as Heritage: Contemporary Pasts	Romila Thapar	Aleph Book Company	2018	999.00	978-9384067359
28	Reverse Engineering Vedic Vimanas: New Light on Ancient Indian Heritage	Kavya Vaddadi , Enrico Baccarini	Enigma Edizioni	2018	-	978-8899303402
29	Revisiting the Political Thought of Ancient India: Pre-Kautilyan Arthashastra Tradition	Ashok S. Chousalkar	SAGE Publications Pvt. Ltd	2018	792.00	978-9352807680
30	Women and the Puranic Tradition in India	Saxena Monika	Taylor & Francis	2018	1495.00	978-0367200473
31	Ancient Indian Knowledge System : Archaeological Perspective	Dr. Vasant Shinde	Vidyanand Prakashan	2017	-	978-8193141090
32	Atom Bomb and Missiles in Ancient India : and Ancient War Weapons	S. Narain	Kalpaz Publications	2017	540.00	978-9351282501
33	Doctors Scientists and Engineers of Ancient India	S. Narain	Kalpaz Publications	2017	790.00	978-9351282570
34	Nyaya Theory of Knowledge: A Critical Study of Some Problems of Logic and Metaphysics	Satischandra Chatterjee	Motilal Banarsidass	2017	300.00	978-8120840829
35	Parsis of Ancient India: With References from Sanskrit Books, Inscriptions	Shapurji Kavasji Hodivala	Kalpaz Publications	2017	560.00	978-9351284710
36	The Educational Heritage of Ancient India: How an Ecosystem of Learning Was Laid to Waste	Sahana Singh	Notion Press	2017	252.00	978-1947586529

Sr. No.	Title	Author	Publisher	Year	Price	ISBN
37	Tribal Literature, Culture and Knowledge Systems	H.S. Chandalia	YKING BOOKS	2017	850.00	-
38	Feast and Fasts: A History of Food in India	Colleen Taylor Sen	Speaking Tiger	2016	799.00	978-9385755347
39	Rediscovering Indian Knowledge System	Pranay Abhang, Pramod Moghe, Prashant Holay, Satish Kulkarni	Pradnya Vikas Shikshan Sanstha	2016	-	Only Kindle edition available
40	State And Government In Ancient India	A. S. Altekar	Motilal Banarsidass	2016	400.00	978-8120810099
41	Vāda in Theory and Practice: Studies in Debates, Dialogues and Discussions in Indian Intellectual Discourses	Radhavallabh Tripathi	D.K. Print World Ltd	2016	1300.00	978-8124608562
42	Wisdom of the Ancient Seers Mantras of the Rig Veda	David Frawley	Motilal Banarsidass	2016	395.00	978-8120811607
43	Chanakya Niti Evam Kautilya Arthshastra: The Principles He Effectively Applied on Politics, Administration, Statecraft, Espionage, Diplomacy	Prof. Shrikant Prasoon	V&S Publishers	2015	295.00	978-9357940030
44	Maths Sutra: The Art of Indian Speed Calculation	Gaurav Tekriwal	Penguin India	2015	299.00	978-0143425021
45	Animal Husbandry and Allied Technologies in Ancient India	Joglekar P. P.	Pentagon Press	2014	1795.00	978-8182748316
46	Exploring Science in Ancient Indian Texts	Bal Ram Singh	D.K. Print World Ltd	2014	850.00	978-8124607527
47	Animal Husbandry in Ancient Indian Literature	Tomar Kumar Aruna	LAP Lambert Academic Publishing	2013	6636.00	978-3659413841
48	The Cultural Heritage of India (Set of 9 Volumes)	Various Authors	Ramakrishna Mission Institute Of Culture	2013	-	-

Sr. No.	Title	Author	Publisher	Year	Price	ISBN
49	Ancient Indian Influence on Japanese Culture	Kaburagi Yoshiro	Munshiram Manoharlal Publishers	2012	1350.00	978-8121512305
50	Science and Technology in Ancient Indian Texts	Bal Ram Singh , Nath Girish , Umesh Kumar Singh	D.K. Print World Ltd	2012	670.00	978-8124606322
51	Vedic Physics	Verma Keshav	-	2012	560.00	978-8120832701
52	Indian Family System: The Concept, Practices and Current Relevance	Bal Ram Singh	D.K. Print World Ltd	2011	700.00	978-8124605936
53	Vedic Wisdom	J. M. Mehta	V&S Publishers	2011	295.00	978-9381384084
54	Ancient Indian Leaps into Mathematics	B.S. Yadav, Manmohan	Birkhauser Boston Inc	2010	-	978-0817646943
55	Ancient Indian Law (Set of 3 Vols)	K N Tiwari, Krishna Kumari	Prashant Publishing House	2009	1900.00	978-8190828260
56	Ancient Indian Metallurgy	Mishra Ashoka K.	Agam Kala Prakashan	2009	1500.00	978-8173200922
57	Ancient Indian Sciences	Swami Chidatman Jee Maharaj	Anmol Publisher	2009	-	978-8126136148
58	Vedic Science and Technology	Biswal Sadasiva	D.K. Print World Ltd	2009	500.00	978-8124604663
59	Women in Ancient and Medieval India: 9 (History of Science, Philosophy & Culture in Indian Civilization)	Bhuyan Chandel	Centre for Studies in Civilizations	2009	1750.00	978-8187586340
60	A Modern Introduction To Ancient Indian Mathematics	T.S. Bhanumurthy	New Age International Limited	2008	191.00	978-8122426007
61	Echoes of Ancient Indian Wisdom, The Universal Hindu Vision and Its Edifice	Dr. Shantha N Nair	Pustak Mahal	2008	336.00	978-8122310207

Sr. No.	Title	Author	Publisher	Year	Price	ISBN
62	Ancient Indian Wisdom: Spiritual Heritage	P. Sethuraman	Createspace Independent Pub	2007	-	978-1419686498
63	India's Ancient Past	R.S. Sharma	Oxford University Press	2006	445.00	978-9354977527
64	The Inscriptions of the Indus Civilization	Hasenpflug Rainer	BoD	2006	5320.00	978-3833446139
65	Indian Knowledge Systems - Vol 1 & 2	Avadhesh K. Singh, Kapil Kapoor	D.K. Print World Ltd;	2005	3500.00	978-8124603369
66	Political Thought in Ancient India: Emergence of the State, Evolution of Kingship Based on the Saptanga Theory (Reconstructing Indian History and Culture)	G. P. Singh	D.K. Print World Ltd	2003	495.00	978-8124600016
67	Ancient Indian Sciences	Subodh Kapoor	Cosmo Publications	2002	3500.00	978-8177552942
68	South Indian Archaeology	Babu	Bharatiya Kala Prakashan	2000	2000.00	978-8186050323
69	Sanskrit Play Production in Ancient India	Mehta Tarla	Motilal Banarsidass Publishers	1999	495.00	978-8120810570
70	A Source Book of Indian Archaeology	F. R. Allchin	Munshiram Manoharlal Publishers	1997	1910.00	978-8121504652
71	Ancient Indian Insights And Modern Science	Kalpana Paranjape	Bhandarkar Oriental Research Institute	1996	920.00	978-8194137795
72	History of Ancient Indian Medical Science: Vardhatrayi	Gurupada Sarma Halder	Sharada Prakashan	1996	1100.00	978-8185320137
73	By My Sword and Shield: Traditional Weapons of the Indian Warrior	E Jaiwant Paul	Lotus	1995	3808.00	978-8174360120

Sr. No.	Title	Author	Publisher	Year	Price	ISBN
74	History of Indian Archaeology: The Beginning to 1947	Dilip K. Chakrabarti	Munshiram Manoharlal Publishers	1995	1135.00	978-8121500791
75	The Archaeology of Ancient Indian Cities	Dilip K. Chakrabarti	OUP India	1995	19999.00	978-0195634723
76	Ancient Indian Warfare: With Special Reference to the Vedic Period	Sarva Daman Singh	Motilal Banarsidass	1989	595.00	978-8120804869
77	Natural Science of the Ancient Hindus (ICPR Series in Philosophy of Natural and Social Sciences)	Surendranath Dasgupta	Motilal Banarsidass	1987	195.00	978-8120803299
78	Science and Society in Ancient India: 22 (Philosophical Currents)	Debiprasad Chattopadhyaya	John Benjamins Publishing Co	1978	495.00	978-9060320983
79	Tribes In Ancient India	Bimala Law	Bhandarkar Oriental Research Institute	1973	545.00	978-8194020097
80	Engineering and Technology in Ancient India	Ravi Prakash Arya	-	-	755.00	978-8194759300





सुनहरा भविष्य बनाने के लिए अनिवार्य है; किताबों से मित्रता करना ।

ताकत का नया स्रोत कुछ लोगों के हाथ में धन होना नहीं है, बल्कि कई लोगों के हाथ में पुस्तकों का होना है।

FOLLOW

facebook
Join us on Facebook

YouTube

Follow us

archana.garate@mithibai.ac.in