

Electrical Machines By Rk Rajput

Electrical machines by RK Rajput are considered fundamental components in the field of electrical engineering, serving as the backbone of power generation, transmission, and conversion systems. Renowned for their clarity, comprehensiveness, and technical depth, RK Rajput's work on electrical machines has become a cornerstone reference for students, educators, and professionals alike. His detailed explanations, coupled with practical insights, have made complex concepts accessible and applicable in real-world scenarios. In this article, we delve into the core topics covered in RK Rajput's treatment of electrical machines, exploring their types, working principles, construction details, and applications to provide a comprehensive understanding for enthusiasts and learners.

Introduction to Electrical Machines

Electrical machines are devices that convert electrical energy into mechanical energy or vice versa. They are broadly classified into two categories: - Motors: Devices that convert electrical energy into mechanical energy. - Generators: Devices that convert mechanical energy into electrical energy. RK Rajput's work emphasizes a systematic approach to understanding these machines, starting from fundamental principles to advanced applications.

Types of Electrical Machines

Electrical machines are categorized based on their construction, operation, and application. The main types include:

DC Machines

DC machines operate on direct current and are widely used in applications requiring variable speed control and precise operation. - Components: Stator (field winding), rotor (armature), commutator, brushes. - Types: DC shunt, series, and compound machines. - Applications: Electric traction, cranes, and battery chargers.

Transformers

Transformers are static devices that transfer electrical energy between circuits through electromagnetic induction. - Principle: Mutual induction between primary and secondary windings. - Types: Step-up, step-down, auto-transformers. - Applications: Power distribution, voltage regulation.

AC Machines

AC machines operate on alternating current and include both synchronous and asynchronous (induction) machines. - Synchronous Machines: Operate at synchronous speed, used as generators or synchronous motors. - Induction Machines: Operate on the principle of electromagnetic induction, predominant in industrial applications.

Working Principles of Electrical Machines

RK Rajput's explanations emphasize the fundamental electromagnetic principles that govern the operation of electrical machines.

Electromagnetic Induction

At the heart of most electrical machines lies Faraday's law of electromagnetic induction, which states that a change in magnetic flux induces an electromotive force (EMF) in a conductor.

Magnetic Fields and Flux

The interaction between magnetic fields and conductors produces torque in motors and induces voltages in generators. Understanding flux linkage, magnetic circuit design, and flux density is crucial.

Torque Production in Motors

Torque in electrical motors is generated due to the interaction of magnetic fields produced by stator and rotor currents or fluxes. The direction and magnitude depend on the armature reaction, field strength, and load conditions.

Construction and Components of Electrical Machines

RK Rajput provides detailed descriptions of the constructional features of different machines, highlighting their design considerations.

Stator and Rotor

- Stator: The stationary part, containing the main magnetic field windings or poles.
- Rotor: The rotating part, which interacts with the stator magnetic field to produce motion or induce voltage.

Windings and Core

- Armature Windings: Carry current in motors and generators. - Field Windings: Create a magnetic field in DC machines and synchronous machines. - Core Material: Usually laminated silicon steel to reduce eddy current losses.

Commutator and Brushes

In DC machines, the commutator and brushes facilitate current reversal in the armature conductors, enabling continuous torque production.

Operational Characteristics and Performance

RK Rajput discusses various parameters affecting machine performance, including:

1. **Efficiency:** Ratio of output work to input energy.
2. **Power factor:** Measure of how effectively the machine uses electrical power.
3. **Speed-Torque Characteristics:** Relationship vital for control and application.
4. **Starting Torque:** Critical for applications like cranes and conveyors.

Understanding these characteristics helps in selecting the right machine for specific applications and designing control systems.

Applications of Electrical Machines

Electrical machines find widespread use across various sectors. Some key applications include:

Power Generation

- Synchronous generators produce electricity in power plants. - Hydroelectric, thermal, and nuclear power stations rely on large AC generators.

Industrial Drives

- Induction motors are used in pumps, fans, compressors, and conveyor systems. - DC motors are preferred in applications requiring variable speed control.

Transportation

- Electric trains, trams, and electric vehicles utilize DC and AC motors for propulsion.

Electromechanical Systems

- Robotics, automation, and precision machinery employ specialized electrical machines for operation.

Efficiency and Losses in Electrical Machines

RK Rajput emphasizes the importance of understanding efficiency factors and energy losses:

Types of Losses

- Core Losses: Hysteresis and eddy current losses in the magnetic core. - Copper Losses: Resistance in windings causes heat. - Mechanical Losses: Friction and windage in moving parts. - Other Losses: Stray load losses and

dielectric losses.

Improving Efficiency

- Use of high-quality core materials. - Proper winding design. - Adequate lubrication and cooling. - Regular maintenance and operation within rated parameters.

Control and Testing of Electrical Machines

RK Rajput highlights various methods to test and control the performance of electrical machines:

Testing Procedures

- No-load test - Blocked rotor test - Efficiency test - Voltage regulation test

Control Techniques

- Voltage and frequency control for generators. - Variable frequency drives for motor speed control. - Solid-state controllers and soft starters.

Recent Advances and Future Trends

The field of electrical machines continues to evolve with technological advancements:

Smart and IoT-Enabled Machines

Integration of sensors and communication modules for real-time monitoring and

diagnostics.

Energy-Efficient Designs

Development of high-performance materials and innovative winding techniques to reduce losses.

Renewable Energy Integration

Use of specialized machines optimized for wind, solar, and other renewable sources.

Conclusion

Electrical machines by RK Rajput serve as an essential foundation in understanding the principles, design, and application of electrical machinery. Their detailed treatment covers all aspects needed for academic learning and practical implementation. Whether it's the fundamental working principles, constructional details, or the latest technological trends, RK Rajput's work provides a comprehensive resource that continues to educate and inspire generations of electrical engineers. Mastery of these concepts not only enhances technical knowledge but also enables engineers to innovate and improve energy conversion systems, contributing to sustainable and efficient power solutions worldwide.

Electrical Machines by R.K. Rajput: An In-Depth Expert Review Electrical machines are fundamental components in the realm of electrical engineering, serving as the backbone for power generation, transmission, and utilization. Among the numerous textbooks and reference materials available, Electrical Machines by R.K. Rajput stands out as a comprehensive and authoritative resource, revered by students, educators, and professionals alike. This article aims to provide an in-depth review of this seminal work, examining its scope, structure, pedagogical approach, and practical utility, all through the lens of an

expert in the field.

Introduction to R.K. Rajput's Electrical Machines

R.K. Rajput's Electrical Machines is widely regarded as a cornerstone text in electrical engineering education. Since its first publication, it has gained acclaim for its clarity, systematic presentation, and depth of coverage. The book is tailored to meet the needs of undergraduate students pursuing B.Tech or B.E. degrees in electrical engineering, but it also serves as a valuable reference for postgraduate students, researchers, and practicing engineers. The core objective of the book is to facilitate a thorough understanding of the principles, operation, design, and applications of electrical machines, including transformers, DC machines, and AC machines such as synchronous and induction motors. Its comprehensive explanations, illustrative examples, and detailed diagrams make complex concepts accessible.

Scope and Content Overview

R.K. Rajput's Electrical Machines covers a broad spectrum of topics, making it a one-stop resource for understanding electrical machinery. The book is structured into well-defined chapters, each focusing on specific machine types and concepts. Major Topics Covered

1. Transformers - Construction and principle of operation - EMF equation - Equivalent circuit - Losses and efficiency - Testing and regulation - Auto-transformers
2. DC Machines - Construction and types - Operation principles - Torque and emf equations - Tests and performance characteristics - Speed control methods
3. Synchronous Machines - Construction and types - Operation as generator and motor - Phasor diagrams - Power factor correction - Parallel operation and synchronization
4. Induction Machines (Asynchronous Machines) - Construction and working principle - Slip and torque characteristics - Starting and speed control - Efficiency and performance analysis
5. Special Machines and Modern Topics - Stepper motors

- Doubly fed induction generators - Brushless DC motors - Recent developments in electrical machine technology The exhaustive coverage ensures students gain not only theoretical knowledge but also practical insights into machine design, operation, and troubleshooting.

Pedagogical Approach and Teaching Methodology

One of the standout features of R.K. Rajput's *Electrical Machines* is its pedagogical clarity. The author employs a logical progression that builds upon fundamental concepts, gradually introducing more complex ideas. Key features include:

- **Clear Expositions and Step-by-Step Derivations** - The book emphasizes derivations of key formulas, such as the emf equation of transformers or torque equations of motors, to foster a deep understanding.
- **Detailed step-by-step explanations** make complex mathematical derivations accessible.
- **Use of Diagrams and Illustrations** - Every chapter is rich with labeled diagrams, phasor diagrams, and circuit representations, which are crucial for visual learners.
- These visuals help in grasping the physical principles and operational nuances of different machines.
- **Practical Examples and Problem-Solving** - The book includes numerous worked-out examples that illustrate how theoretical formulas are applied to real-world problems.
- **End-of-chapter exercises**, ranging from basic to challenging, encourage active learning and reinforce comprehension.
- **Summary and Review Sections** - Concise summaries at the end of each chapter highlight key points.
- **Review questions** facilitate self-assessment and exam preparation.
- **Inclusion of Latest Trends** - The latest edition incorporates recent technological advancements, making the content relevant for modern electrical engineering applications.

Strengths of R.K. Rajput's Electrical

Machines

1. Comprehensive Coverage The book's extensive scope ensures that readers develop a holistic understanding of electrical machines. It balances theoretical fundamentals with practical insights, which is vital for both academic and industrial contexts. 2. Logical Organization Topics are arranged logically, starting from basics like transformer principles to complex machines like synchronous and induction motors. This sequencing aids incremental learning. 3. Illustrative Content The abundance of diagrams, phasor diagrams, and circuit representations significantly enhances comprehension, especially for visual learners. 4. Focus on Practical Aspects The inclusion of testing procedures, efficiency calculations, and performance curves bridges the gap between theory and practice, preparing students for real-world challenges. 5. Clarity and Readability R.K. Rajput's lucid language and straightforward explanations make complex concepts accessible without oversimplification. 6. Problem Sets and Practice Questions A wide array of problems help students develop problem-solving skills, essential for examinations and professional practice.

Limitations and Areas for Improvement

While the book is highly regarded, no resource is without limitations. Some aspects that could be improved include: - Advanced Topics Depth: For postgraduate research, the book might not delve into the latest innovations in electrical machine design or control systems. - Digital Resources: The integration of online simulations or interactive content could enhance understanding, especially in a digital learning environment. - Case Studies: Inclusion of more industrial case studies can provide practical perspectives on machine failures and maintenance. Despite these minor points, the overall utility of the book remains exceptional for its target audience.

Practical Utility and Applications

Electrical Machines by R.K. Rajput is not merely an academic textbook but also a practical guide for engineers involved in designing, operating, and maintaining electrical equipment. For Students - Serves as a comprehensive textbook for coursework and examinations. - Facilitates understanding of core concepts through illustrations and solved problems. - Prepares students for competitive exams and technical interviews. For Educators - Acts as an authoritative teaching aid with structured chapters and pedagogical features. - Provides a basis for designing laboratory experiments and projects. For Practicing Engineers - Acts as a quick reference for troubleshooting and performance analysis. - Aids in system design and optimization with detailed performance curves and efficiency calculations. For Researchers - Offers foundational knowledge necessary for exploring advanced topics like vector control of motors, smart grids, and renewable energy integration.

Conclusion: Is R.K. Rajput's Electrical Machines the Right Choice?

In the landscape of electrical engineering literature, R.K. Rajput's Electrical Machines stands out as a definitive resource that balances depth, clarity, and practicality. Its systematic approach, comprehensive coverage, and pedagogical strengths make it a must-have for students and professionals aiming to master the intricacies of electrical machinery. While it may not cover the cutting-edge research topics in exhaustive detail, its foundational principles remain relevant and essential for understanding both traditional and modern electrical machines. For anyone seeking a well-structured, authoritative guide to electrical machines, R.K. Rajput's work is undoubtedly a top-tier reference that continues to educate and inspire generations of electrical engineers. In Summary: - A comprehensive, pedagogically sound textbook. - Extensive coverage of transformers, DC, synchronous, and induction machines. - Rich illustrations and problem-solving approach. - Practical focus with testing,

efficiency, and performance analysis. - An invaluable resource for students, educators, and industry professionals. Final Verdict: R.K. Rajput's *Electrical Machines* is an indispensable text that combines theoretical rigor with practical insight, making it an essential part of any electrical engineer's library.

Every reader approaches a book with different expectations. Some are searching for answers, others for guidance, and many simply want clarity. What makes the option to download ***Electrical Machines By Rk Rajput*** appealing is not only the content itself, but the way it adapts to these varied intentions without imposing a fixed path. Access becomes personal. A reader can open the book with a clear goal in mind, or with no plan at all. Both approaches work. There is no pressure to follow a strict order, no obligation to read everything at once. The material waits patiently, allowing engagement to unfold naturally. This sense of availability removes hesitation. When knowledge feels easy to reach, curiosity becomes more active. Readers explore topics they might otherwise postpone, trusting that they can pause, return, and revisit ideas whenever needed. Over time, this builds confidence and familiarity with the subject matter. Time plays a different role in this context. Learning does not demand long, uninterrupted hours. It fits into everyday moments. A few pages during a break, a short section before rest, or a quick review when a question arises all contribute to meaningful progress. Downloading ***Electrical Machines By Rk Rajput*** supports this rhythm without disrupting daily routines. Portability reinforces this experience. Instead of choosing one resource for one situation, readers carry access to many possibilities. This freedom encourages comparison, reflection, and deeper understanding. One idea naturally leads to another, creating a layered learning process rather than a linear one. The structure of PDF files supports clarity. Pages remain consistent, references stay aligned, and visual elements retain their purpose. This reliability matters when readers want to focus on comprehension rather than adjusting to shifting layouts. The reading experience remains steady, regardless of where or when it takes place. Interaction transforms reading into engagement. Highlighted passages capture insight. Notes record personal interpretation. Bookmarks signal intention rather than completion. Over time, ***Electrical Machines By Rk Rajput*** reflects not only its original content, but also the reader's evolving

understanding. Search functionality quietly enhances usefulness. Readers can locate specific concepts without effort, making the book a practical reference as well as a source of learning. This ease encourages frequent return, reinforcing knowledge through repetition and application. Affordability also influences openness. When access does not require significant investment, readers feel free to explore. Public domain collections and open-access initiatives allow individuals to build knowledge without financial pressure. This accessibility supports learning across different backgrounds and circumstances. Platforms such as Project Gutenberg, Open Library, and Internet Archive preserve important works while making them widely available. Academic repositories expand this ecosystem by offering research and analysis that deepen context. Together, they support independent learning built on trust and reliability. Choosing legitimate sources remains essential. Trusted platforms protect readers from unreliable content and security risks while respecting intellectual contributions. Responsible access ensures that knowledge sharing remains sustainable for future learners. In professional environments, downloadable books serve as quiet resources. They are consulted when needed, revisited when questions arise, and relied upon for clarity. Instead of interrupting work, they integrate smoothly into ongoing tasks and decisions. Students experience similar flexibility. Learning adapts to individual pace and preference. Difficult sections can be revisited without pressure, and understanding develops gradually. The ability to study offline further supports focus and consistency. Different reading styles find equal support. Some readers prefer steady progression, others follow curiosity across sections. The format accommodates both, allowing each reader to shape their own path through ***Electrical Machines By Rk Rajput***. Accessibility features extend participation. Adjustable text size, reading assistance tools, and compatibility with support technologies ensure that more people can engage comfortably. These features quietly expand access without altering content. Organization becomes intuitive. Digital libraries grow alongside interests and goals. Files remain searchable, notes preserved, and insights easy to revisit. Learning feels cumulative rather than scattered. Another subtle advantage lies in reduced pressure. When readers know they can return at any time, they feel less urgency to understand

everything immediately. Ideas settle through repetition and reflection, leading to deeper comprehension. Global availability adds perspective. Readers from different regions engage with the same material, often bringing varied interpretations. This shared access broadens understanding and highlights the value of multiple viewpoints. Exploration becomes natural when effort is minimal. Readers venture beyond familiar subjects, connecting ideas across disciplines. This openness strengthens creativity and encourages critical thinking. Long-term engagement is supported by continuity. Notes saved today remain relevant tomorrow. Bookmarks placed months ago still guide attention. Learning evolves instead of resetting. Books take on a different role. They become resources that wait rather than demand. They remain present, ready to support new questions and changing interests. Over time, this steady availability shapes attitude. Learning feels approachable. Curiosity feels justified. Understanding feels earned through consistency rather than urgency. Accessing ***Electrical Machines By Rk Rajput*** in this way aligns with real-life rhythms. It respects limited time, varied attention, and changing priorities. Learning becomes something that accompanies daily life rather than competing with it. Rather than pushing toward a finish line, the experience encourages return. Each revisit brings new context and deeper insight. Familiar sections reveal new meaning as perspective shifts. Knowledge grows quietly through this process. There is no dramatic endpoint, only gradual accumulation. Ideas connect, understanding strengthens, and confidence develops naturally. In this space, learning does not announce itself. It unfolds through small choices, repeated engagement, and ongoing curiosity. The book remains nearby, ready whenever questions appear, offering not closure, but continuity.

Questions & Answers About electrical machines by rk rajput

No	Question	Answer
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1	What are the key topics covered in RK Rajput's 'Electrical Machines' book?	RK Rajput's 'Electrical Machines' covers fundamental concepts of transformers, DC machines, and AC machines, including their construction, working principles, performance analysis, and applications.
2	How does the book explain the working principles of transformers?	The book provides detailed explanations of electromagnetic induction, the construction of core and shell types, equivalent circuit models, regulation, and efficiency calculations for transformers.
3	Is 'Electrical Machines' by RK Rajput suitable for beginners?	Yes, the book is designed to be accessible for students new to electrical engineering, offering clear explanations, diagrams, and solved examples to aid understanding.
4	What are the latest updates or editions of RK Rajput's 'Electrical Machines'?	The most recent edition of RK Rajput's 'Electrical Machines' includes updated content on recent advancements, new solved problems, and revised diagrams to reflect current industry standards.
5	Does the book include practice problems and solved examples?	Yes, the book contains numerous practice problems, numerical examples, and previous exam questions to help students prepare effectively.
6	How does RK Rajput address the efficiency and performance analysis of electrical machines?	The book discusses methods to evaluate efficiency, losses, and performance parameters of various electrical machines, supported by practical examples and calculations.
7	Can 'Electrical Machines' by RK Rajput be used as a reference for advanced studies or research?	While primarily a textbook for students, the detailed explanations and comprehensive coverage make it a useful reference for advanced studies and foundational research in electrical engineering.
8	What makes RK Rajput's 'Electrical Machines' a popular choice among students?	Its clarity, detailed explanations, organized structure, and extensive problem sets make it highly preferred among students for understanding electrical machines thoroughly.

electrical machines, RK Rajput, electrical engineering, transformers, DC machines, AC machines, electrical circuits, machine design, electrical power systems, electrical engineering textbooks

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Digital distribution ensures that learners receive identical content regardless of location.

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Always review the platform's terms of use before sharing any content related to Electrical Machines By Rk Rajput.

Ethical considerations when sharing

Beyond legal requirements, ethical considerations play an important role. Sharing unauthorized copies can harm authors and publishers by reducing potential income and discouraging future content creation. Supporting legal distribution ensures that high-quality Electrical Machines By Rk Rajput materials continue to be produced and updated. Ethical sharing builds trust and sustainability within reading and learning communities.

Finding Reviews

Reading reviews is one of the most effective ways to choose the best edition of Electrical Machines By Rk Rajput. With many versions, formats, and publishers available, reviews help readers avoid low-quality or poorly formatted editions and focus on content that meets their expectations.

Online bookstores often feature customer reviews and ratings that provide insights into readability, formatting quality, and overall satisfaction. Paying attention to detailed reviews can reveal common issues such as missing pages, poor editing, or compatibility problems with certain devices. Reviews that mention specific strengths or weaknesses are especially useful when selecting a digital version of Electrical Machines By Rk Rajput.

Community-driven platforms such as Goodreads, Reddit, and specialized forums offer additional perspectives. These communities allow readers to discuss content in depth, compare editions, and share personal experiences. Recommendations from experienced readers or subject-matter enthusiasts can be particularly valuable when choosing educational or technical Electrical Machines By Rk Rajput materials.

Professional reviews from blogs, academic journals, or reputable websites can also provide objective evaluations. These reviews often focus on content

accuracy, relevance, and usefulness, making them helpful for students and professionals who rely on reliable information.

Evaluating review credibility

Not all reviews carry the same level of reliability. When reading reviews, consider the reviewer's background, level of detail, and consistency with other feedback. Multiple reviews highlighting similar strengths or weaknesses usually indicate a genuine pattern. Avoid relying solely on extreme opinions and instead look for balanced assessments that discuss both pros and cons of the *Electrical Machines* By Rk Rajput edition.

Using Audiobooks

Audiobooks offer an alternative way to experience *Electrical Machines* By Rk Rajput content and are increasingly popular among modern readers. Instead of reading text, users listen to narrated versions, allowing them to engage with content while performing other tasks. Audiobooks are especially useful during commuting, exercising, or completing routine activities.

Platforms such as Audible, Google Audiobooks, Apple Books, and Scribd offer professionally narrated audiobooks of many *Electrical Machines* By Rk Rajput titles. These versions often feature high-quality narration, clear pronunciation, and structured pacing that enhances understanding. Some audiobooks also include chapter navigation, bookmarks, and playback speed controls for added convenience.

For public domain works, platforms like LibriVox provide free audiobooks narrated by volunteers. While narration quality may vary, LibriVox remains a valuable resource for accessing classic or open-access versions of *Electrical Machines* By Rk Rajput without cost. Listening to samples before committing to a full audiobook can help ensure a comfortable listening experience.

Audiobooks are particularly beneficial for auditory learners or individuals with visual impairments. They also help reduce screen time, making them a healthy

alternative for extended content consumption. However, audiobooks may not be ideal for detailed study that requires frequent referencing, highlighting, or visual analysis.

Combining audiobooks with text

Many readers find value in combining audiobooks with digital or printed text. Listening while following along in the text can improve comprehension and retention. Others use audiobooks for initial exposure and then refer to the text version of *Electrical Machines* By Rk Rajput for deeper study. This multi-format approach maximizes flexibility and learning efficiency.

Tracking Progress

Tracking reading progress is a powerful way to stay motivated and organized when engaging with *Electrical Machines* By Rk Rajput. Monitoring progress helps readers set goals, manage time effectively, and reflect on what they have learned. Whether reading for leisure, study, or professional development, tracking tools enhance accountability and consistency.

Apps such as Goodreads, StoryGraph, and LibraryThing allow users to log books, track reading status, write reviews, and set annual or monthly reading goals. These platforms also offer personalized recommendations based on reading history, making it easier to discover related *Electrical Machines* By Rk Rajput materials.

For readers who prefer a more customized approach, spreadsheets or note-taking apps can serve as effective tracking tools. Creating a simple reading log that includes dates, chapters completed, key notes, and personal reflections helps organize learning and maintain focus. Digital notes can be linked directly to highlighted sections within *Electrical Machines* By Rk Rajput for easy reference.

Using tracking for study and research

For academic or professional purposes, tracking progress goes beyond simple

completion. Recording insights, questions, and references while reading *Electrical Machines By Rk Rajput* creates a structured knowledge base that can be revisited later. This approach supports deeper understanding and improves long-term retention of information.

Tracking tools also help identify patterns in reading habits, such as preferred formats or optimal reading times. Understanding these patterns allows readers to adjust their routines for better productivity and enjoyment.

Community engagement and motivation

Sharing progress within reading communities can increase motivation and accountability. Many platforms allow users to join reading challenges, discussion groups, or book clubs centered around specific topics or genres. Engaging with others who are also reading *Electrical Machines By Rk Rajput* fosters discussion, insight exchange, and a sense of shared purpose.

However, sharing progress should always respect privacy preferences. Users can choose what information to make public and what to keep personal. Balanced participation ensures that tracking remains a supportive tool rather than a source of pressure.

Final thoughts on sharing and managing *Electrical Machines By Rk Rajput*

Responsible sharing, informed selection, and effective tracking are key aspects of enjoying *Electrical Machines By Rk Rajput* in the digital age. By respecting copyright, relying on trusted reviews, exploring audiobooks, and monitoring reading progress, readers can create a well-rounded and ethical reading experience. These practices not only enhance personal understanding but also contribute to a sustainable and supportive reading ecosystem built around high-quality *Electrical Machines By Rk Rajput* content.