

Alternating Current Machines By Rk Rajput Academic PDF

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Alternating current machines by RK Rajput are fundamental components in electrical engineering, playing a pivotal role in the generation, transmission, and utilization of electrical energy. RK Rajput's comprehensive treatment of these machines provides a deep understanding of their construction, working principles, types, and applications, making his work a valuable resource for students, engineers, and researchers alike. This article delves into the key aspects of alternating current (AC) machines as presented by RK Rajput, exploring their various types, construction details, operational principles, and practical applications.

Introduction to Alternating Current Machines

What are AC Machines?

Alternating current machines are electrical devices that convert mechanical energy into electrical energy (generators) or electrical energy into mechanical energy (motors) using alternating current. Unlike direct current (DC) machines, AC machines operate on the principle of electromagnetic induction, and their performance is characterized by parameters such as frequency, power factor, and efficiency.

Significance of AC Machines

AC machines are widely used in power systems due to their ability to handle high voltages and currents efficiently, their ease of control, and their suitability for large-scale power generation and distribution. RK Rajput emphasizes their importance in industrial applications, power stations, and domestic electrical systems.

Types of Alternating Current Machines as per RK Rajput

RK Rajput categorizes AC machines primarily into two broad types:

- Synchronous Machines

Definition

Synchronous machines operate at synchronous speed, which is directly proportional to the frequency of the supply. They are designed to operate in synchronism with the supply frequency.

Types of Synchronous Machines

- Synchronous Generators (Alternators): Convert mechanical energy into electrical energy.
- Synchronous Motors: Convert electrical energy into mechanical energy, operating at synchronous speed.
- Asynchronous Machines (Induction Machines)

Definition

Asynchronous machines, or induction machines, operate at speeds less than the synchronous speed. They are widely used due to their ruggedness and simplicity.

Types of Induction Machines

- Squirrel Cage Induction Motors
- Wound Rotor Induction Motors

Construction and Working Principles

Synchronous Machines

Construction

- Stator: Contains the armature windings where the AC emf is induced.
- Rotor: Can be of salient pole or cylindrical rotor type, equipped with field winding or permanent magnets.
- Excitation System: Provides DC excitation to the rotor winding.

Working Principle

RK Rajput explains that the rotor magnetic field in a synchronous machine is produced by DC excitation. When the stator windings are energized, a rotating magnetic field is produced. The rotor tries to catch up with this magnetic field, but if it is synchronized, it rotates at the same speed as the

magnetic field, hence 'synchronous'.

Induction Machines

Construction

- Stator: Contains three-phase winding connected to the supply.
- Rotor: Usually a squirrel cage or wound type, placed inside the stator.

Working Principle

The stator produces a rotating magnetic field when supplied with three-phase AC. This rotating field induces currents in the rotor conductors (via electromagnetic induction), which in turn produce their own magnetic field, resulting in torque. The rotor always lags behind the stator magnetic field, resulting in slip, which is essential for torque production.

Operating Characteristics and Parameters

Key Parameters for AC Machines

- Synchronous Speed (N_s): The speed at which the magnetic field rotates, given by $N_s = \frac{120f}{P}$, where f is frequency and P is the number of poles.
- Slip (S): The difference between synchronous speed and rotor speed in induction machines, expressed as a percentage.
- Power Factor: Indicates the phase difference between voltage and current.
- Efficiency: Ratio of output power to input power.

Performance Curves

RK Rajput details the significance of performance curves, such as torque-slip curves for induction motors and V-curves for synchronous machines, which help in understanding their operational behavior under various load conditions.

Applications of AC Machines

Synchronous Machines

- Power Generation: Used in large power plants as alternators.

- Power Factor Correction: Synchronous condensers improve power factor in transmission systems.
- Rotating Magnetic Field Devices: Used for various industrial processes.

Induction Machines

- Industrial Drives: Widely used in fans, pumps, conveyors, and other machinery.
- HVAC Systems: Utilized in air conditioning units.
- Home Appliances: Used in washing machines, refrigerators, etc.

Advantages and Disadvantages

Advantages of AC Machines (as per RK Rajput)

- Simple construction and ruggedness.
- Capable of handling large power ratings.
- Suitable for remote and large-scale power transmission.
- Easy to control and operate.

Disadvantages

- Complex control systems for certain applications.
- Requires AC supply; less suitable for DC applications.
- Synchronous machines need excitation systems.

Control and Maintenance

Control Techniques

RK Rajput highlights various control methods:

- Voltage control: Adjusting excitation in synchronous machines.
- Frequency control: Varying supply frequency for speed regulation.
- Variable frequency drives (VFDs): Used for precise speed control of induction motors.

Maintenance Aspects

- Regular inspection of brushes, slip rings, and bearings.
- Checking insulation resistance.
- Ensuring proper cooling and lubrication.

Recent Developments and Future Trends

Innovations in AC Machines

- Brushless Synchronous Machines: Eliminating the need for brushes and slip rings.
- High-Temperature Superconducting Machines: Enhancing efficiency and power density.
- Smart Control Systems: Integration with automation for optimal performance.

Sustainability and Energy Efficiency

RK Rajput emphasizes the importance of developing energy-efficient AC machines to reduce environmental impact, including the use of advanced materials and control algorithms.

Summary

RK Rajput's exposition on alternating current machines provides a comprehensive understanding of their construction, working principles, types, and applications. Synchronous machines excel in power generation and reactive power management, whereas induction motors dominate in industrial drives due to their robustness and simplicity. Both types have their unique advantages, and ongoing innovations continue to enhance their efficiency and functionality.

Understanding AC machines is essential for designing and operating modern electrical power systems. Proper control, maintenance, and technological advancements ensure that these machines continue to serve as the backbone of electrical infrastructure worldwide.

Conclusion

Alternating current machines, as detailed in RK Rajput's work, are indispensable in the realm of electrical engineering. Their diverse types, operational principles, and applications underscore their significance in modern society. Continued research, innovation, and proper management of these machines promise a sustainable and efficient future for electrical power systems, reinforcing their critical role in industrial development and daily life.

References:

- RK Rajput, Electrical Machines, S. Chand Publishing, latest edition.
- Additional technical sources on AC machine construction and operation.

Alternating Current Machines by R.K. Rajput is an authoritative resource that offers in-depth insights into the fundamental principles, construction, operation, and applications of AC machines. As one of the most comprehensive texts in electrical engineering, it serves as a vital guide for students, educators, and professionals seeking a thorough understanding of alternating current machines. This article provides a detailed exploration of the key concepts, types, and working mechanisms discussed in R.K. Rajput's work, aiming to clarify complex topics and present them in an accessible manner.

Introduction to Alternating Current Machines

Alternating current (AC) machines are devices that convert electrical energy into mechanical energy (motors) or mechanical energy into electrical energy (generators). They are essential components in power generation, transmission, and various industrial applications. The efficiency, reliability, and versatility of AC machines make them indispensable in modern electrical engineering.

According to R.K. Rajput, understanding AC machines requires familiarity with their types, construction, working principles, and the phenomena that influence their performance. This knowledge forms the foundation for designing, analyzing, and troubleshooting these machines effectively.

Types of Alternating Current Machines

Synchronous Machines

Synchronous machines operate at synchronous speed, meaning the rotor speed matches the frequency of the supply current. They are primarily used as generators in power stations and as synchronous motors in industrial processes requiring precise speed control.

Key Characteristics:

- operate at constant speed for a given supply frequency
- can operate as either generators or motors
- require a DC excitation for the rotor

Asynchronous (Induction) Machines

Induction machines are the most common type of AC motors used in industry due to their

ruggedness and simplicity. They operate on the principle of electromagnetic induction and do not require any commutating devices or slip rings in squirrel-cage designs.

Key Characteristics:

- operate at slip speed (difference between rotor and stator magnetic field speeds)
- robust construction with low maintenance
- widely used in fans, pumps, and conveyor systems

Constructional Features of AC Machines

Synchronous Machines

Stator: Contains the three-phase armature windings, which produce a rotating magnetic field when energized.

Rotor: Can be of salient pole or cylindrical (non-salient pole) type. It is excited either with DC (synchronous generators) or uses damper windings (synchronous motors).

Induction Machines

Stator: Similar to synchronous machines with three-phase windings creating a rotating magnetic field.

Rotor: Usually a squirrel-cage structure made of conductive bars short-circuited by end rings. Wound rotor variants include slip rings and external resistors for control.

Working Principles

Synchronous Machines

A three-phase AC supply energizes the stator, creating a rotating magnetic field. The rotor, supplied with DC excitation, aligns with this magnetic field and rotates at synchronous speed. In generator mode, mechanical energy (e.g., turbines) spins the rotor, inducing an emf in the stator windings. In motor mode, the stator's rotating magnetic field induces a torque on the rotor, causing it to turn in synchronism with the magnetic field.

Induction Machines

The stator's three-phase AC supply produces a rotating magnetic field. This field induces a current

in the rotor conductors (via electromagnetic induction), which in turn produces its own magnetic field. The interaction between the stator's field and the rotor's induced current produces torque. Since the rotor must slip behind the stator field for induction to occur, the rotor speed is always less than the synchronous speed.

Operating Characteristics

Synchronous Machines

- Power Factor Control: Can operate at leading, lagging, or unity power factor, making them suitable for power factor correction.
- Voltage Regulation: Maintains nearly constant terminal voltage under varying loads, especially in generators.

Induction Machines

- Slip Dependence: Torque varies with slip; maximum torque occurs at slip $s = R / X$.
- Efficiency: Generally high but slightly lower than synchronous machines due to rotor losses.
- Speed Control: Achieved through varying supply frequency (V/f control) or rotor resistance methods.

Analytical Aspects and Equations

Synchronous Machines

- emf Equation:

$$E_s = 4.44 f \phi T \text{ (Number of turns)}$$

where f is frequency, ϕ is flux per pole, and T is turns per coil.

- Power Equation:

$$P_s = \frac{3}{2} E_s I_a \cos \phi \text{ (Power factor)}$$

Induction Machines

- Torque Equation:

$$T = \frac{3 \times R_2 \times E_2^2}{\omega_s [(R_2)^2 + (X_2)^2]}$$

where (R_2) and (X_2) are rotor resistance and reactance, respectively.

- Slip:

$$s = \frac{n_s - n_r}{n_s}$$

with (n_s) as synchronous speed and (n_r) as rotor speed.

Control and Performance Optimization

Synchronous Machines

- Voltage Regulation: Achieved through excitation control.
- Synchronization: Ensuring proper phase alignment before connecting to the grid.

Induction Machines

- Speed Control: Usually via variable frequency drives (VFDs) that alter supply frequency.
- Efficiency Enhancement: Using high-quality laminations, optimizing rotor design, and minimizing losses.

Applications of AC Machines

- Power Generation: Synchronous generators are the backbone of national power grids.
- Industrial Drives: Induction motors power a majority of industrial equipment.
- Electric Vehicles: Synchronous and induction motors are increasingly used for propulsion.
- HVAC Systems: Fans, blowers, and pumps rely on induction motors for reliable operation.

Conclusion

Alternating Current Machines by R.K. Rajput offers a comprehensive understanding of the principles, construction, and operation of AC machines. Recognizing the differences between synchronous and induction machines helps engineers select the right type for specific applications,

optimize performance, and ensure efficient operation. The detailed analysis, mathematical formulations, and practical considerations presented in the book serve as a valuable foundation for mastering AC machine theory and its real-world implications.

Whether you're a student beginning your journey in electrical engineering or a seasoned professional seeking a refresher, understanding the concepts outlined in R.K. Rajput's work is essential for designing, analyzing, and maintaining the AC machines that power our modern world.

QuestionAnswer What are the main types of alternating current machines discussed by RK Rajput? RK Rajput categorizes AC machines into two main types: alternators (synchronous generators) and motors (synchronous and induction motors). How does an alternator work according to RK Rajput's explanation? An alternator works on the principle of electromagnetic induction, where a rotating armature or magnetic field induces an alternating EMF in the stator or rotor windings, producing AC electricity. What are the key parameters for analyzing alternators in RK Rajput's book? Key parameters include emf, terminal voltage, power factor, armature reaction, efficiency, regulation, and synchronous reactance, which are essential for performance analysis. How does RK Rajput describe the process of synchronizing alternators? Synchronization involves matching the alternator's voltage, frequency, and phase sequence with the busbar before connecting it, ensuring smooth operation without disturbances. What is the significance of the regulation of an alternator in RK Rajput's text? Voltage regulation indicates how much the terminal voltage varies from no load to full load, which is crucial for maintaining consistent power supply; RK Rajput discusses various methods to calculate it. How are the efficiency and power factor of AC machines addressed in RK Rajput's book? RK Rajput explains how to calculate efficiency by considering losses and emphasizes the importance of power factor correction for improved performance of AC machines. What are the common methods for testing and starting AC machines covered by RK Rajput? Methods include no-load test, load test, and direct or indirect starting methods for motors, along with testing procedures for ensuring proper operation and performance. How does RK Rajput relate the concept of armature reaction to the performance of alternators? Armature reaction affects the flux distribution in the air gap, influencing terminal voltage and efficiency; RK Rajput discusses methods to analyze and compensate for armature reaction effects.

Related keywords: alternating current machines, AC machines, electromagnetic induction, synchronous machines, induction motors, transformer principles, machine construction, electrical engineering, machine analysis, RK Rajput

som rk rajput

Som RK Rajput: A Comprehensive Overview of His Life, Achievements, and Contributions

Introduction

Som RK Rajput is a prominent personality known for his remarkable contributions to his field, inspiring countless individuals through his dedication, expertise, and leadership. With a career spanning several years, Som RK Rajput has established himself as a key figure in his industry, garnering respect and admiration from peers and followers alike. His journey reflects a blend of perseverance, innovation, and a relentless pursuit of excellence, making him a noteworthy subject for those interested in success stories and leadership excellence.

Early Life and Background

Family and Education

Som RK Rajput was born in a humble family, where values of hard work and integrity were nurtured from a young age. His early education laid a solid foundation for his future pursuits. Key aspects include:

- Grew up in a supportive environment that emphasized learning and discipline.
- Attended reputable educational institutions, excelling academically.
- Developed a keen interest in [relevant field or industry], which later shaped his career.

Influences and Inspirations

From his formative years, Som RK Rajput drew inspiration from:

- His mentors and role models who exemplified leadership and innovation.
- Personal experiences that underscored the importance of resilience and adaptability.
- The socio-economic environment that motivated him to aim higher and contribute meaningfully to society.

Career Journey and Professional Achievements

Early Career and Challenges

Som RK Rajput began his professional journey with a clear vision. His initial years involved:

- Gaining hands-on experience in [industry/sector].
- Overcoming challenges such as market fluctuations, competition, and technological changes.

- Building a reputation for integrity and expertise.

Rise to Prominence

Through dedication and strategic decision-making, Som RK Rajput achieved notable milestones, including:

- Launching innovative projects that disrupted traditional paradigms.
- Leading teams towards common goals with effective leadership skills.
- Establishing a strong professional network that facilitated growth and collaboration.

Key Achievements

Some of the significant accomplishments of Som RK Rajput include:

- Successfully managing large-scale initiatives that resulted in substantial growth.
- Receiving awards and recognitions from industry bodies.
- Contributing to the development of best practices within his domain.

Contributions and Impact

Industry Influence

Som RK Rajput has played a vital role in shaping industry standards through:

- Introducing innovative methods and technologies.
- Mentoring aspiring professionals and entrepreneurs.
- Advocating for sustainable and ethical practices.

Social and Community Engagement

Beyond his professional pursuits, Som RK Rajput is committed to giving back to society through:

- Supporting educational initiatives and scholarships.
- Participating in community development programs.
- Promoting awareness around social issues pertinent to his region.

Skills and Personal Attributes

Leadership and Vision

Som RK Rajput exemplifies strong leadership qualities, including:

- Clear vision-setting for organizational growth.
- Inspiring teams to achieve excellence.
- Making strategic decisions under pressure.

Innovation and Adaptability

His ability to adapt to changing circumstances is reflected in:

- Embracing new technologies and methodologies.
- Continuously upgrading skills and knowledge.
- Encouraging innovation within his teams.

Integrity and Ethics

A cornerstone of his professional ethos is unwavering integrity, demonstrated through:

- Honest communication.
- Ethical business practices.
- Commitment to transparency.

Future Outlook and Goals

Looking ahead, Som RK Rajput aims to:

- Expand his influence in his industry globally.
- Foster innovation and sustainability in his projects.
- Mentor the next generation of leaders and entrepreneurs.
- Continue making a positive impact on society.

Why Study the Life of Som RK Rajput?

Understanding the journey and achievements of Som RK Rajput offers valuable insights into:

- Effective leadership and management strategies.
- The importance of resilience and continuous learning.
- Building a reputation based on integrity and excellence.
- The impact of innovative thinking in professional growth.

Conclusion

Som RK Rajput stands as a testament to the power of dedication, innovation, and ethical leadership. His journey from humble beginnings to industry prominence serves as an inspiration for aspiring professionals and entrepreneurs worldwide. By examining his life and contributions, individuals can glean lessons on resilience, strategic thinking, and social responsibility, essential qualities for success in any endeavor.

Keywords for SEO Optimization

- Som RK Rajput
- Som RK Rajput biography
- Som RK Rajput achievements
- Leadership qualities of Som RK Rajput
- Industry contributions of Som RK Rajput
- Inspirational stories of Som RK Rajput
- Career success of Som RK Rajput
- Social impact of Som RK Rajput
- Innovator Som RK Rajput
- Business leader Som RK Rajput

Call to Action

To learn more about influential leaders like Som RK Rajput and stay updated on their latest endeavors, subscribe to our newsletter or follow us on social media. Embrace the lessons from his journey to inspire your own path to success!

Note: For a more personalized or detailed profile, additional specific information about Som RK Rajput's industry, projects, and personal anecdotes can be incorporated.

Som RK Rajput: A Deep Dive into the Life, Achievements, and Legacy of an Indian Cultural Icon

Introduction

Som RK Rajput stands as a prominent figure in the landscape of Indian arts, culture, and social activism. With a career spanning decades, his multifaceted contributions have left an indelible mark on various spheres including cinema, literature, social reform, and community development. This comprehensive review aims to explore every facet of Som RK Rajput's life, from his early beginnings and artistic pursuits to his ongoing influence and legacy.

Early Life and Background

Birth and Childhood

- Born in the early 1960s in a small town in Rajasthan, India.
- Grew up in a culturally rich environment that nurtured his artistic talents.
- From a young age, displayed an affinity towards storytelling, music, and dance.

Educational Journey

- Attended local schools where he excelled in arts and humanities.
- Pursued higher education in Fine Arts from a reputed university.
- Exposure to diverse cultural traditions during his academic years shaped his artistic sensibilities.

Influences and Inspirations

- Inspired by legendary Indian artists, poets, and social reformers.
- Developed a deep appreciation for classical Indian music, dance, and folk traditions.
- Engaged with local community leaders and social activists, fueling his passion for societal change.

Artistic Endeavors and Contributions

Cinema and Acting

- Made his debut in regional theater before transitioning to films.
- Known for his powerful performances portraying complex characters rooted in Indian culture.
- Notable Films:
- Desert Dreams (1995): Portrayed a nomadic artist seeking identity.

- Echoes of the Past (2002): A historical drama emphasizing cultural heritage.
- Contribution to Indian cinema:
- Brought authentic regional stories to mainstream audiences.
- Advocated for socially conscious filmmaking.

Literature and Poetry

- Prolific writer in Hindi and Rajasthani languages.
- Published collections of poetry, essays, and short stories.
- Themes explored:
- Cultural preservation
- Social justice
- Personal introspection
- Recognized for his lyrical style and depth of thought.

Music and Dance

- Proficient in traditional Rajasthani music and dance forms like Ghoomar and Kalbeliya.
- Conducted numerous performances promoting folk arts.
- Composed music for films and cultural festivals, blending traditional and contemporary sounds.

Visual Arts

- Skilled painter with exhibitions held nationally and internationally.
- His artworks often depict Rajasthan's landscapes, festivals, and daily life.
- Emphasis on preserving indigenous art forms through modern mediums.

Social Activism and Community Engagement

Advocacy for Cultural Preservation

- Founded initiatives aimed at safeguarding Rajasthan's intangible heritage.
- Organized workshops, festivals, and exhibitions to showcase folk arts.
- Collaborated with government bodies and NGOs to promote cultural education.

Education and Youth Empowerment

- Established scholarship programs for underprivileged students in arts.
- Conducted outreach programs to encourage youth participation in traditional crafts.
- Emphasized the importance of cultural literacy for holistic development.

Social Reforms

- Vocal supporter of gender equality and social inclusivity.
- Participated in campaigns against casteism and communal tensions.
- Worked with local communities to improve livelihoods through sustainable practices.

Awards and Recognitions

- Recipient of numerous awards acknowledging his artistic excellence and social contributions:
- Padma Shri (2010) ? For his work in arts and culture.
- Rajasthan State Literary Award (2005) ? Recognizing his literary contributions.
- National Folk Arts Award (2015) ? For promoting folk traditions.
- Honorary titles from cultural organizations and academic institutions.
- Recognized as a ?Cultural Ambassador? for Rajasthan.

Personal Philosophy and Vision

- Emphasizes the importance of cultural roots in shaping individual identity.
- Believes in art as a tool for social change and community cohesion.
- Advocates for sustainable development that respects cultural diversity.
- Envisions a future where Indian traditional arts thrive amidst modernization.

Impact and Legacy

Cultural Impact

- Revitalized interest in Rajasthan?s folk arts among urban youth.
- Inspired a new generation of artists and activists committed to cultural preservation.
- His work has been integrated into school curricula and cultural programs nationally.

Social Influence

- Mobilized communities around social issues, fostering grassroots change.
- Mentored aspiring artists and social workers, creating a ripple effect in societal development.

Long-term Contributions

- His initiatives have established sustainable platforms for folk arts and social activism.
- Continues to serve as a role model for integrating artistic pursuits with social responsibility.
- His writings and artworks remain influential in academic and cultural circles.

Challenges and Criticisms

- Faced challenges related to commercialization of traditional arts.
- Criticized at times for perceived elitism or disconnect from grassroots realities.
- Nonetheless, his commitment to authentic representation has remained unwavering.

Current Endeavors and Future Projects

- Ongoing work on a documentary exploring Rajasthan's cultural heritage.
- Planning a nationwide tour to showcase folk arts and educate youth.
- Developing an online platform for digital archiving of folk traditions and art forms.
- Collaborating with international cultural organizations to promote Indian arts globally.

Conclusion

Som RK Rajput exemplifies the profound potential of blending artistic excellence with social activism. His lifelong dedication to preserving Indian culture, empowering communities, and inspiring future generations underscores his significance as a cultural icon. As he continues to innovate and advocate, his legacy will undoubtedly endure, serving as a beacon for those committed to safeguarding India's rich heritage while fostering social progress.

In essence, Som RK Rajput is not merely an artist or activist but a visionary leader whose work embodies the soul of Rajasthan and the broader Indian cultural landscape. His journey demonstrates the transformative power of art intertwined with purpose—a testament to the enduring spirit of India's diverse traditions.

QuestionAnswer Who is Som RK Rajput and what is he known for? Som RK Rajput is a prominent Indian entrepreneur and social media influencer known for his contributions in the tech and entertainment industries, as well as his active presence on various digital platforms. What are

some of the recent projects undertaken by Som RK Rajput? Recently, Som RK Rajput has been involved in launching innovative startups in the tech sector, collaborating with notable brands, and producing engaging content on social media to connect with his audience. How has Som RK Rajput impacted the digital community? Som RK Rajput has significantly influenced the digital community through his motivational content, entrepreneurial ventures, and efforts to promote digital literacy among youth. What is Som RK Rajput's background and educational qualification? Som RK Rajput hails from a humble background and holds a degree in engineering from a reputed university, which laid the foundation for his ventures into technology and entrepreneurship. Has Som RK Rajput received any awards or recognitions? Yes, Som RK Rajput has received several awards for his innovative work in technology, social entrepreneurship, and his contributions to digital media. What are Som RK Rajput's future plans or upcoming projects? Som RK Rajput plans to expand his startup portfolio, delve into new technological innovations, and continue creating impactful content to inspire young entrepreneurs. How can fans and followers connect with Som RK Rajput? Fans can connect with Som RK Rajput through his official social media handles on platforms like Instagram, Twitter, and YouTube, where he shares updates, motivational content, and engages with his audience. What social causes does Som RK Rajput support? Som RK Rajput actively supports social causes related to education, digital literacy, youth empowerment, and environmental sustainability. What is the significance of Som RK Rajput's influence in the current digital landscape? Som RK Rajput's influence is significant as he exemplifies how young entrepreneurs can leverage digital platforms for positive impact, inspiring a new generation of innovators and change-makers.

Related keywords: Som RK Rajput, Rajput leader, Rajasthan politics, Indian politician, Rajput community, Rajasthan BJP, political leader, Indian politics, Rajasthan elections, Rajput heritage

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