

Applied Thermodynamics By Rs Khurmi

Applied Thermodynamics by R.S. Khurmi: An In-Depth Overview

Applied thermodynamics by R.S. Khurmi is considered a cornerstone textbook for students and professionals engaged in mechanical engineering, especially those focusing on thermodynamics and its practical applications. This book bridges the gap between theoretical concepts and real-world engineering problems, providing a comprehensive understanding of thermodynamic principles as they are applied in various engineering systems. Its systematic approach, clarity of explanations, and inclusion of numerous illustrative examples make it a preferred choice for learners aiming to grasp the complexities of thermodynamics in practical scenarios.

Introduction to Applied Thermodynamics

What is Applied Thermodynamics?

Applied thermodynamics refers to the study of energy transformations and heat transfer in engineering systems. It involves analyzing engines, turbines, refrigeration systems, and other machinery to optimize performance, efficiency, and sustainability. Unlike pure thermodynamics, which primarily deals with fundamental laws and theoretical models, applied thermodynamics emphasizes practical applications, design considerations, and real-world constraints.

Role of R.S. Khurmi's Book in Learning Applied Thermodynamics

R.S. Khurmi's book provides a detailed exposition of concepts such as:

1. Thermodynamic cycles
2. Heat engines and their efficiencies
3. Refrigeration and air conditioning systems
4. Gas turbines and jet propulsion
5. Internal combustion engines

The book's pedagogical approach aids students in developing problem-solving skills, understanding complex systems, and designing thermodynamic devices efficiently.

Core Concepts Covered in the Book

Fundamental Laws of Thermodynamics

The book begins with a thorough review of the basic laws:

1. **First Law of Thermodynamics:** Conservation of energy, energy balance in closed and open systems.
2. **Second Law of Thermodynamics:** Entropy, irreversibility, and the concept of maximum efficiency.
3. **Third Law of Thermodynamics:** Absolute entropy and its implications.

Understanding these laws forms the foundation for analyzing real thermodynamic systems.

Thermodynamic Properties and

Processes

The book emphasizes the importance of properties such as temperature, pressure, volume, enthalpy, entropy, and internal energy. It explains how these properties change during various processes:

1. Isothermal
2. Adiabatic
3. Isobaric
4. Isochoric
5. Polytropic

Illustrative diagrams and charts are used extensively to aid visualization.

Power Cycles and Their Applications

The text discusses several cycles fundamental to power generation and engines:

1. Otto Cycle (spark-ignition engines)
2. Diesel Cycle
3. Rankine Cycle (steam power plants)
4. Brayton Cycle (gas turbines)
5. Refrigeration cycles

Each cycle is explained with detailed analysis, efficiency calculations, and practical considerations.

Practical Applications and System Design

Internal Combustion Engines

The book explains the thermodynamic principles behind petrol and diesel engines, including:

1. Working cycles
2. Performance parameters
3. Heat losses
4. Efficiency improvements

It covers the design considerations for engine components and the impact of various parameters on engine performance.

Steam Power Plants

An essential part of applied thermodynamics involves analyzing steam cycles:

1. Efficiency of Rankine cycle
2. Reheat and regenerative cycles
3. Efficiency enhancement techniques
4. Environmental considerations

The book details the design and operation of modern thermal power stations.

Refrigeration and Air Conditioning

Applying thermodynamics principles to cooling systems involves:

1. Refrigeration cycles (Vapor compression, Absorption)
2. Cooling load calculations
3. Design of condensers, evaporators, and compressors
4. Environmental impact and refrigerant selection

Khurmi's book discusses these systems with practical insights.

Advanced Topics Covered in the Book

Gas Turbines and Jet Propulsion

The book elaborates on:

1. Working principles of open and closed cycle gas turbines
2. Efficiency considerations
3. Jet propulsion systems
4. Applications in aviation and power generation

Combined Cycles

To enhance efficiency, combined cycle systems are analyzed, integrating gas turbines with steam turbines:

1. Principles of operation
2. Advantages over single cycles
3. Design challenges

Environmental and Energy Conservation Aspects

The book emphasizes sustainable practices:

1. Reducing fuel consumption
2. Minimizing emissions
3. Alternative and renewable energy sources

It encourages engineers to incorporate eco-friendly practices in system design.

Problem-Solving Approach in R.S. Khurmi's Book

Illustrative Examples and Exercises

One of the key strengths of the book is its extensive collection of solved problems, which demonstrate

application of thermodynamic principles to real-world problems. These examples help students:

1. Develop analytical skills
2. Understand the step-by-step process of problem-solving
3. Prepare for examinations and practical design tasks

Practice Questions and Review Exercises

The book includes end-of-chapter questions designed to reinforce concepts and assess understanding. These questions vary in difficulty, encouraging students to think critically and apply their knowledge effectively.

Importance of R.S. Khurmi's Text in Engineering Education and Practice

Educational Significance

The clarity, depth, and practical orientation of the book make it a vital resource for:

1. Undergraduate students in mechanical engineering
2. Diploma students and technical learners
3. Instructors seeking a comprehensive teaching aid

Professional Utility

Practicing engineers utilize this book for:

1. Designing thermodynamic systems
2. Optimizing engine and plant performance
3. Cost analysis and efficiency enhancement

Conclusion

In summary, **applied thermodynamics by R.S. Khurmi** serves as a complete guide that integrates fundamental principles with practical applications. Its detailed explanations, systematic problem-solving approach, and coverage of modern technological advances make it an indispensable resource in the field of mechanical engineering. Whether for academic purposes or professional application, Khurmi's book continues to educate and inspire engineers to innovate and improve thermal systems for a sustainable future.

Applied Thermodynamics by R.S. Khurmi: An In-Depth Review and Expert Analysis Thermodynamics

is a cornerstone of engineering and physical sciences, underpinning the design and analysis of engines, refrigeration systems, power plants, and myriad other technological applications. Among the numerous textbooks that serve as foundational resources for students and professionals alike, Applied Thermodynamics by R.S. Khurmi stands out as a comprehensive, authoritative guide. This article aims to provide an in-depth review of this seminal work, exploring its features, structure, pedagogical approach, and the reasons behind its enduring popularity in engineering education.

Introduction to the Book

Applied Thermodynamics by R.S. Khurmi is a well-established textbook revered for its clarity, systematic presentation, and practical orientation. First published decades ago, it has continued to evolve through various editions, reflecting advancements in thermodynamics and engineering applications. The book is tailored primarily for undergraduate students pursuing mechanical, automobile, and thermal engineering but also serves as a valuable resource for practicing engineers. Key Highlights: - Emphasis on practical applications - Extensive problem sets and examples - Clear

diagrams and illustrations - Concise explanations of complex concepts - Coverage of both classical and applied thermodynamics

Organization and Content Structure

The book is organized into multiple sections, each systematically covering essential aspects of applied thermodynamics. Its structure facilitates progressive learning, starting from fundamental principles and advancing toward complex systems.

Fundamentals of Thermodynamics

The initial chapters lay the groundwork by explaining basic concepts such as: - Thermodynamic systems: open, closed, isolated - Properties of substances: pressure, temperature, volume, enthalpy, entropy - Laws of thermodynamics: Zeroth, First, Second, and Third Laws - Work and heat transfer: modes, calculations, and significance This section ensures that readers develop a solid understanding of the theoretical basis before delving into practical applications.

Thermodynamic Cycles and Power Plants

Subsequent chapters explore real-world systems, including: - Rankine cycle (steam power plants) - Vapor compression refrigeration cycles - Gas turbines and internal combustion engines - Air standard cycles These sections focus on analyzing efficiencies, component processes, and performance parameters, bridging theory with practice.

Application of Thermodynamics in Engineering Systems

Further chapters examine: - Combustion and fuel efficiency - Cooling and heating systems - Thermal insulation and heat transfer mechanisms - Performance evaluation of engines and turbines By elaborating on system design and operational considerations, the book emphasizes applied aspects crucial for engineering practice.

Pedagogical Features and Teaching Aids

R.S. Khurmi's Applied Thermodynamics is notable for its pedagogical strengths, which contribute to its

popularity among students and educators.

Illustrations and Diagrams

Clear, detailed diagrams accompany almost every concept and cycle discussed. These visual aids help students grasp complex processes such as ideal and real cycle variations, thermodynamic processes, and component layouts.

Step-by-Step Problem Solving

The book emphasizes solving typical problems, demonstrating step-by-step calculations for: - Work done during various processes - Heat transfer calculations - Efficiency determinations - Property changes during cycles This approach enhances analytical skills and prepares students for examination and practical problem-solving.

Summary and Review Sections

Each chapter concludes with summaries, key points, and review questions, reinforcing learning and encouraging self-assessment.

Practical Examples

Real-life examples from industry and everyday life illustrate theoretical concepts, making the subject more relatable and engaging.

Strengths of Applied Thermodynamics by R.S. Khurmi

Several distinctive features make this textbook a preferred choice for many:

Comprehensive Coverage

The book covers a broad spectrum of topics, from fundamental principles to advanced applications, making it a one-stop reference.

Clarity and Simplicity

Khurmi's writing style is straightforward, avoiding unnecessary jargon, which simplifies complex ideas for students.

Focus on Practical Applications

Unlike purely theoretical texts, this book emphasizes real-world systems, encouraging students to think

about engineering solutions.

Extensive Practice Material

Abundant problem sets, multiple-choice questions, and review exercises facilitate mastery and exam preparation.

Updated Content in Latest Editions

Recent editions incorporate advances in thermodynamic cycles, renewable energy systems, and environmental considerations, keeping the material relevant.

Limitations and Criticisms

While Applied Thermodynamics by R.S. Khurmi is highly regarded, it is not without criticisms: - Depth of Advanced Topics: Some advanced topics like finite-time thermodynamics, irreversible processes, or modern energy systems are covered only superficially, which may require supplementary reading. - Mathematical Rigor: For students seeking rigorous derivations and proofs, the book's approach can sometimes be overly simplified. - Design and Modern Technologies: The book predominantly focuses on classical systems, with limited discussion

on recent technological innovations like fuel cells, combined cycle plants, or renewable energy systems. Despite these limitations, the book remains a cornerstone in thermodynamics education due to its practical orientation.

Who Should Read This Book?

Applied Thermodynamics by R.S. Khurmi is ideal for: - Undergraduate students in mechanical, automobile, and thermal engineering - Engineering diploma students - Practicing engineers needing a refresher or reference material - Instructors seeking a teaching resource with ample examples The book's accessible language and illustrative approach make it suitable for learners at various levels.

Conclusion: An Enduring Classic in Thermodynamics Education

In summary, Applied Thermodynamics by R.S. Khurmi remains a highly valuable resource that combines clarity, practical relevance, and comprehensive coverage. Its emphasis on real-world applications, combined with pedagogical features such as detailed diagrams and problem-solving exercises, make it a favorite among students and educators alike. While it

may not delve deeply into cutting-edge research topics, its foundational approach ensures that learners develop a solid understanding of thermodynamic principles essential for engineering practice. The book's ongoing popularity and multiple editions testify to its significance in the field. For anyone looking to master applied thermodynamics and understand how these principles underpin modern engineering systems, R.S. Khurmi's *Applied Thermodynamics* is an indispensable guide—a trusted companion for both academic pursuits and professional development.

In an increasingly connected world, the way people access information has changed dramatically. The option to download **Applied Thermodynamics By Rs Khurmi** is no longer seen as a luxury, but rather as a natural part of modern learning and knowledge sharing. Digital access has removed many of the traditional barriers that once limited education, allowing people from diverse backgrounds to explore ideas, build skills, and expand their understanding at their own pace.

Historically, books and academic resources were tied to physical spaces such as libraries, bookstores, or institutions. While these spaces still hold value, they

often came with limitations related to location, availability, and cost. Digital formats have transformed this experience. By downloading **Applied Thermodynamics By Rs Khurmi**, readers gain immediate access to content without waiting, traveling, or investing in expensive printed editions. This shift supports a more inclusive and flexible learning environment.

One of the most practical advantages of digital books is mobility. A single device can store hundreds or even thousands of files, allowing readers to carry entire collections wherever they go. Whether studying at home, reviewing material during a commute, or reading while traveling, **Applied Thermodynamics By Rs Khurmi** remains readily available. This level of portability fits seamlessly into modern lifestyles, where learning often happens alongside work, family, and personal commitments.

Digital convenience extends beyond simple storage. Files can be opened instantly, organized into folders, and backed up securely. Readers no longer need to worry about losing pages, damaging covers, or running out of space. Instead, they can focus entirely on the content itself. This simplicity encourages more

frequent interaction with **Applied Thermodynamics** **By Rs Khurmi** and reduces the friction that sometimes discourages consistent reading.

Another defining feature of digital formats is enhanced functionality. PDF and eBook files preserve original layouts, images, charts, and tables, ensuring that the material remains accurate and visually clear. For educational and professional content, this consistency is essential. Readers can trust that diagrams, references, and formatting appear exactly as intended, supporting deeper comprehension and reliable study.

Interactive tools further enhance the learning experience. Digital readers allow users to highlight important sections, insert notes, bookmark pages, and search for keywords within seconds. These features transform reading into an active process. Engaging directly with **Applied Thermodynamics** **By Rs Khurmi** helps readers organize ideas, reflect on key concepts, and revisit important sections efficiently.

Search functionality is particularly valuable when working with long or complex documents. Instead of

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Self-directed learning thrives in a digital environment. Readers can choose what to study, how deeply to explore topics, and when to engage with content. This autonomy fosters motivation and curiosity. Instead of following rigid schedules,

individuals shape their own learning journeys, using **Applied Thermodynamics By Rs Khurmi** as a flexible resource that adapts to their goals.

Digital access also encourages critical thinking. With multiple resources available at once, readers can compare perspectives, evaluate arguments, and form independent conclusions. Engaging with **Applied Thermodynamics By Rs Khurmi** alongside related materials deepens understanding and supports analytical skills. This habit of thoughtful comparison is especially valuable in academic and professional contexts.

Interdisciplinary exploration becomes more natural with digital resources. Readers can move seamlessly between topics, drawing connections across different fields. Ideas from history, science, technology, and culture often intersect, and digital access allows learners to explore these intersections without limitation. **Applied Thermodynamics By Rs Khurmi** becomes part of a broader intellectual ecosystem rather than an isolated text.

For students, downloadable books offer practical academic benefits. Offline access ensures

uninterrupted study, even without a stable internet connection. Annotation tools help organize notes and highlight key concepts, making revision and exam preparation more effective. Digital access allows students to personalize study methods and improve learning efficiency.

Educators also benefit from digital resources. Sharing or recommending downloadable materials simplifies lesson planning and supports remote or blended learning environments. Digital access to **Applied Thermodynamics By Rs Khurmi** allows instructors to integrate relevant content quickly and encourage interactive engagement among students.

Accessibility is another important advantage of digital formats. Many readers support adjustable font sizes, night modes, and text-to-speech features. These options help accommodate diverse learning needs and visual preferences. Digital access ensures that **Applied Thermodynamics By Rs Khurmi** remains usable for a wider audience, promoting inclusivity and equal access to information.

Environmental considerations further highlight the value of digital books. While technology has its own

footprint, distributing content digitally often requires fewer physical resources than printing and shipping books at scale. Reducing paper usage and transportation contributes to more sustainable knowledge sharing over time.

Organization is another subtle but meaningful benefit. Digital files can be categorized, tagged, and retrieved instantly. Readers can build structured libraries that grow without physical clutter. This organization supports long-term learning and makes revisiting **Applied Thermodynamics By Rs Khurmi** easier and more efficient.

Global connectivity also plays a role in the rise of digital learning. When people across different regions access the same materials, shared knowledge creates opportunities for dialogue and collaboration.

Downloading **Applied Thermodynamics By Rs Khurmi** allows ideas to travel freely, fostering understanding beyond cultural and geographic boundaries.

As digital access becomes more common, digital literacy grows in importance. Learning how to evaluate sources, manage information, and use digital

tools responsibly is now a fundamental skill.

Engaging with **Applied Thermodynamics By Rs Khurmi** in digital format helps users develop these competencies naturally through regular use.

Perhaps the most meaningful impact of digital access is how it reshapes attitudes toward learning. When information is readily available, curiosity feels easier to pursue. Readers are more likely to explore new topics, revisit familiar subjects, and continue learning simply because the barriers are low. Downloading **Applied Thermodynamics By Rs Khurmi** supports this mindset by making knowledge approachable and flexible.

In conclusion, downloading **Applied Thermodynamics By Rs Khurmi** reflects the strengths of modern digital education. Through accessibility, affordability, functionality, and ethical access, digital resources empower individuals to take ownership of their learning. When used responsibly through trusted platforms, **Applied Thermodynamics By Rs Khurmi** becomes more than a digital file—it becomes a reliable companion for continuous growth, critical thinking, and lifelong intellectual development.

Questions & Answers About applied thermodynamics by rs khurmi

No	Question	Answer
1	What are the key topics covered in 'Applied Thermodynamics' by R.S. Khurmi?	The book covers topics such as basic concepts of thermodynamics, properties of pure substances, first and second laws of thermodynamics, power cycles, refrigeration and air conditioning, gas turbines, and internal combustion engines.
2	How does R.S. Khurmi's 'Applied Thermodynamics' facilitate understanding of practical applications?	The book emphasizes real-world applications through detailed examples, diagrams, and problem-solving techniques that help students relate thermodynamic principles to engineering systems.
3	Is 'Applied Thermodynamics' by R.S. Khurmi suitable for beginners?	Yes, the book is designed to introduce fundamental concepts clearly, making it suitable for beginners and engineering students new to thermodynamics.

4	What makes R.S. Khurmi's 'Applied Thermodynamics' a popular choice among students?	Its comprehensive coverage, simple language, numerous solved examples, and emphasis on practical applications make it a preferred textbook for students preparing for engineering exams.
5	Does the book include recent developments in thermodynamics technology?	While primarily focused on classical thermodynamics principles, the book also discusses modern applications like refrigeration cycles, gas turbines, and internal combustion engines relevant to current engineering practices.
6	Are there practice problems in 'Applied Thermodynamics' by R.S. Khurmi for self-assessment?	Yes, the book contains numerous practice questions and solved problems that help students test their understanding and prepare for exams effectively.
7	How does R.S. Khurmi explain complex thermodynamic concepts in the book?	The author uses simple language, clear diagrams, step-by-step explanations, and practical examples to make complex concepts accessible and easy to grasp.

8	Is 'Applied Thermodynamics' by R.S. Khurmi updated with current industry standards?	The book covers fundamental principles and traditional applications; for the latest industry standards and recent advancements, supplementary resources or newer editions may be recommended.
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thermodynamics, heat transfer, rs khurmi
thermodynamics, engineering thermodynamics,
thermodynamic cycles, entropy, first law, second law,
energy analysis, thermodynamic properties

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Core Discussion

Digital books help readers maintain productivity.

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Applied Thermodynamics By Rs Khurmi eBooks offer a practical solution for learners seeking depth without overwhelming complexity.

Why Applied Thermodynamics By Rs Khurmi is important

Applied Thermodynamics By Rs Khurmi plays an important role in how information is created, distributed, and consumed in the digital era. By

offering structured knowledge in a portable and reliable format, *Applied Thermodynamics By Rs Khurmi* allows readers to access consistent content anytime and anywhere. Whether used for education, personal development, or professional reference, *Applied Thermodynamics By Rs Khurmi* provides a practical solution for managing and preserving valuable information.

One of the main reasons *Applied Thermodynamics By Rs Khurmi* is important is its ability to maintain consistent formatting across all devices. Unlike editable documents that may appear differently depending on software or operating systems, *Applied Thermodynamics By Rs Khurmi* ensures that text, images, charts, and layouts remain intact. This reliability makes it suitable for academic materials, instructional guides, official documents, and professional reports where accuracy and clarity are essential.

In educational settings, *Applied Thermodynamics By Rs Khurmi* serves as a dependable learning resource. Students and educators benefit from its structured layout, which supports focused reading and systematic study. For professionals, *Applied*

Thermodynamics By Rs Khurmi offers a convenient way to store reference materials, manuals, and documentation that can be accessed quickly when needed. The portability of digital formats further enhances productivity by eliminating the need to carry physical books or documents.

The value of Applied Thermodynamics By Rs Khurmi for different users

Applied Thermodynamics By Rs Khurmi is versatile and adaptable to various audiences. For learners, it provides organized content that can be easily reviewed and annotated. For researchers, it serves as a stable medium for sharing findings and preserving citations. For businesses, Applied Thermodynamics By Rs Khurmi is commonly used for reports, presentations, contracts, and training materials. This broad applicability highlights its importance as a universal information format.

Personal users also benefit from Applied Thermodynamics By Rs Khurmi as a long-term reference tool. Digital storage allows individuals to build personal libraries that can be accessed across devices. Whether used for hobbies, self-improvement, or general knowledge, Applied Thermodynamics By

Rs Khurmi offers a structured and reliable reading experience.

Creating Applied Thermodynamics By Rs Khurmi

Creating Applied Thermodynamics By Rs Khurmi is a straightforward process thanks to the wide range of tools available today. Common methods include using word processors such as Microsoft Word, Google Docs, or LibreOffice, which allow direct export to PDF format. This approach is ideal for creating documents with text, images, tables, and basic layouts.

Online converters provide an alternative option for users who need quick results without installing software. These tools can convert various file types into Applied Thermodynamics By Rs Khurmi format with minimal effort. However, it is important to use reputable converters to avoid formatting issues or security risks.

PDF editors offer more advanced capabilities for users who require precise control over layout, design, and interactivity. These tools allow users to insert hyperlinks, bookmarks, images, and interactive elements. After creating Applied Thermodynamics By Rs Khurmi, it is always recommended to review the

final output carefully to ensure that formatting, spacing, and alignment are preserved correctly.

Editing and Notes

One of the most valuable features of Applied Thermodynamics By Rs Khurmi is the ability to add notes and annotations without altering the original content. Most modern PDF readers support highlighting, underlining, commenting, and bookmarking. These tools are particularly useful for study, research, and collaborative work.

Students can highlight key concepts, add personal notes, and organize bookmarks for quick revision. Researchers can annotate references and mark important sections for future review. In professional environments, teams can share annotated Applied Thermodynamics By Rs Khurmi files to provide feedback and suggestions while preserving document integrity.

Advanced PDF editors also allow users to edit text and images directly when necessary. While this should be done carefully to avoid altering the original meaning, it can be helpful for updating information, correcting errors, or customizing content for specific

audiences.

Collaboration and productivity

Applied Thermodynamics By Rs Khurmi supports collaboration by enabling multiple users to review and comment on the same document. Shared annotations, tracked comments, and version control features make it easier to work together on projects, reports, or learning materials. This collaborative potential increases efficiency and reduces misunderstandings caused by inconsistent document versions.

Integration with cloud-based platforms further enhances productivity. Cloud storage allows users to access Applied Thermodynamics By Rs Khurmi from different locations and devices, ensuring continuity and flexibility. Automatic synchronization ensures that updates and annotations remain consistent across all access points.

Sharing and Storage

Secure storage and responsible sharing are essential aspects of using Applied Thermodynamics By Rs Khurmi. Cloud storage services such as Google Drive, Dropbox, and OneDrive provide convenient and

secure ways to store digital documents. These platforms often include backup features, access controls, and sharing permissions that help protect sensitive information.

When sharing Applied Thermodynamics By Rs Khurmi with others, it is important to respect copyright and licensing terms. Free or open-access versions can be shared legally, while paid or copyrighted content should only be distributed according to the publisher's guidelines. Many platforms allow users to generate secure links or restrict access to authorized recipients.

Local storage on devices such as laptops, tablets, or external drives also plays a role in document management. Organizing files into clearly labeled folders and maintaining regular backups helps prevent data loss and ensures long-term accessibility.

Long-term preservation

Another reason Applied Thermodynamics By Rs Khurmi is important is its suitability for long-term preservation. PDFs are widely used for archiving because of their stability and compatibility. Academic institutions, libraries, and organizations rely on PDF

formats to preserve documents for future reference. Properly stored Applied Thermodynamics By Rs Khurmi files can remain accessible and readable for many years.

Final thoughts on Applied Thermodynamics By Rs Khurmi

In summary, Applied Thermodynamics By Rs Khurmi is an essential tool for managing and sharing structured knowledge in the modern digital world. Its consistent formatting, portability, and versatility make it suitable for education, professional use, and personal reference. By understanding how to create, edit, annotate, store, and share Applied Thermodynamics By Rs Khurmi responsibly, users can maximize its value and ensure a reliable and efficient information experience across all devices.