### matched pdf

matched pdf is a crucial concept in various digital workflows, referring to the process of finding and associating PDF documents with specific data, records, or other files. Whether you're organizing financial statements, managing legal documents, or streamlining invoice processing, the ability to effectively match PDFs is paramount for efficiency and accuracy. This article will delve deep into the world of matched PDF operations, exploring its definition, common use cases, the challenges involved, and the various methods and technologies employed to achieve successful PDF matching. We will cover everything from manual matching techniques to advanced automated solutions, providing a comprehensive guide to understanding and implementing matched PDF strategies in your business.

#### Understanding the Matched PDF Concept

#### What Exactly is a Matched PDF?

A matched PDF, in essence, is a Portable Document Format file that has been successfully identified and linked to a corresponding piece of information or another document. This matching process is not arbitrary; it relies on specific criteria, identifiers, or data points that create a definitive connection. For instance, an invoice PDF might be matched to a purchase order number, a client ID, or a specific transaction record. The goal is to create a clear, verifiable relationship between the visual information within the PDF and the structured data it represents or relates to. Without this precise alignment, the PDF remains an isolated file, its value diminished in a data-driven environment.

# The Importance of PDF Matching in Data Management

In today's digital landscape, organizations generate and receive vast amounts of data, with PDFs being a ubiquitous format for reports, invoices, contracts, and receipts. The ability to accurately match these PDFs to their respective data sources is fundamental for effective data management. It ensures data integrity, reduces manual effort, and enables automated workflows. When PDFs are correctly matched, businesses can quickly retrieve relevant documentation, verify transactions, and gain insights from their data. Conversely, mismatches or an inability to match can lead to significant operational bottlenecks, errors, and compliance issues. Therefore, mastering the art of matched PDF workflows is a strategic imperative for many businesses.

#### Key Components of a Matched PDF System

A robust system for managing matched PDFs typically involves several key components. First, there's the identification mechanism, which dictates how the matching criteria are established. This could be through unique identifiers like invoice numbers, order IDs, or customer account numbers embedded within the PDF or in associated metadata. Second, there's the matching engine, the technology or process that performs the comparison between the PDF and the target data. This engine needs to be efficient and accurate, capable of handling large volumes of documents. Finally, there's the validation and storage aspect, where the successful matches are confirmed, and the linked PDF is stored in a way that makes it easily accessible for future retrieval and auditing. The interplay of these components determines the success of any matched PDF strategy.

#### Common Use Cases for Matched PDFs

#### **Invoice Processing and Accounts Payable**

One of the most prevalent applications of matched PDFs is in invoice processing. Businesses frequently receive invoices as PDF attachments or scanned documents. The goal here is to match these incoming invoices to the corresponding purchase orders (POs) and goods received notes (GRNs). This three-way matching ensures that a company only pays for goods or services it has ordered and actually received. A matched PDF invoice, linked to its PO and GRN, provides irrefutable proof of a valid transaction. This automation significantly speeds up the payment cycle, reduces the risk of duplicate payments, and improves vendor relationships. Without effective PDF matching, manual review of invoices and POs can be a tedious and error-prone process.

#### Customer Onboarding and Account Management

In customer-facing businesses, matching PDFs plays a vital role in onboarding new clients and managing existing accounts. This can involve matching application forms, identification documents, signed contracts, and other supporting paperwork submitted by customers to their respective client profiles. For example, a bank might match a customer's scanned ID and proof of address to their digital account record. This ensures that all necessary documentation is present, verified, and securely linked to the correct customer entity, streamlining the account setup process and maintaining compliance with regulations like Know Your Customer (KYC). A well-matched PDF dossier for each customer is critical for efficient service delivery and risk management.

#### Legal Document Management and Compliance

The legal sector heavily relies on precise document management, making matched PDFs essential. Legal teams often need to associate contracts, court filings, discovery documents, and affidavits with specific cases, clients, or legal proceedings. Matching these documents ensures that all relevant evidence and agreements are correctly organized and readily accessible. For instance, matching a signed lease agreement PDF to a tenant's rental property record in a property management system. This is crucial for litigation, contract enforcement, and regulatory compliance, where the accurate retrieval and presentation of documentation can have significant consequences. Ensuring that legal PDFs are properly matched aids in maintaining an organized and defensible legal record.

### Financial Reporting and Auditing

In finance, matched PDFs are indispensable for generating accurate financial reports and facilitating audits. This includes matching bank statements, financial statements, tax documents, and transaction receipts to their corresponding entries in accounting software or ledgers. Auditors, in particular, require clear traceability between financial transactions and supporting documentation. The ability to quickly locate and match a specific PDF statement or receipt to a line item in a financial report significantly expedites the audit process and strengthens financial controls. Accurate PDF matching in this domain is a cornerstone of financial transparency and accountability.

#### Challenges in PDF Matching

#### Variability in PDF Formats and Structures

One of the most significant challenges in achieving a robust matched PDF system is the inherent variability in PDF formats and structures. PDFs can be created from various sources, including scanned images, digitally generated documents, and converted files. This leads to diverse layouts, fonts, text encodings, and data positions. A scanned PDF, for example, is essentially an image of text, requiring optical character recognition (OCR) to extract textual data, whereas a digitally generated PDF contains selectable text. This inconsistency makes it difficult for automated systems to reliably extract key information for matching purposes. The lack of a standardized structure across all PDFs poses a considerable hurdle.

#### Data Extraction Accuracy and OCR Limitations

Even with advanced OCR technology, extracting data from PDFs with perfect accuracy is not always guaranteed. Factors such as poor scan quality, handwritten annotations, complex table structures, and low-resolution images can all lead to errors during the OCR process. When the extracted data used for matching is inaccurate, the entire matching process will fail or produce incorrect results. This can necessitate manual correction, defeating the purpose of automation. Ensuring high data extraction accuracy is therefore a critical, yet challenging, aspect of successfully implementing matched PDF solutions. The reliability of the OCR engine directly impacts the efficacy of the matching process.

#### Handling Missing or Incomplete Data

Another common challenge is dealing with PDFs where the necessary matching criteria are missing or incomplete. An invoice might be received without a clear invoice number, or a scanned form might have a crucial field that is unreadable. In such scenarios, automated matching systems will struggle to find a definitive link. This often requires a fallback mechanism, such as flagging the document for manual review or attempting to infer missing data through fuzzy matching techniques or by cross-referencing with other available information. Addressing these data gaps is crucial for maximizing the number of successfully matched PDFs.

#### **Scalability and Performance Issues**

For organizations dealing with a high volume of documents, the scalability and performance of PDF matching solutions become paramount. Manually matching thousands or millions of documents is practically impossible. Automated systems must be able to process large batches of PDFs quickly and efficiently without performance degradation. This requires robust infrastructure, optimized algorithms, and effective resource management. Ensuring that a matched PDF solution can scale alongside the business's growth is a significant technical and operational challenge that needs careful consideration during implementation.

#### Methods and Technologies for Matched PDFs

#### Manual Matching Techniques

At its most basic level, PDF matching can be performed manually. This involves a human operator visually inspecting PDFs and comparing them against corresponding records or data sources. For example, an accounts payable clerk

might open an invoice PDF, find the invoice number, and then manually search for that number in the accounting system. While this method is straightforward and can be effective for small volumes, it is extremely time-consuming, prone to human error, and not scalable for enterprise-level operations. However, it can serve as a starting point or a fallback for complex cases that automated systems cannot handle.

#### Rule-Based Matching

Rule-based matching utilizes predefined rules and logic to identify matching criteria within PDFs. These rules can be based on patterns, keywords, or regular expressions. For example, a rule might be set to look for a specific format of an invoice number (e.g., "INV-XXXXXX") or a date format. The system scans the PDF, extracts text, and applies these rules to identify potential matches. This method is more efficient than manual matching and can be effective for documents with consistent layouts and predictable data fields. However, it can struggle with variations in document structure or unexpected data presentation.

#### Template-Based Matching

Template-based matching involves creating a template for each type of document that needs to be matched. This template defines the exact locations or zones within the PDF where specific data fields are expected to be found. When a new PDF arrives, it is compared against the template. If the PDF's layout closely matches the template, the data within the predefined zones is extracted and used for matching. This method is highly effective for documents with a very consistent layout, such as standardized forms or invoices from a particular vendor. However, it requires upfront effort to create and maintain templates for each document type.

#### Intelligent Document Processing (IDP) and AI

Intelligent Document Processing (IDP) leverages artificial intelligence (AI), machine learning (ML), and advanced OCR to automate the extraction and classification of data from unstructured and semi-structured documents, including PDFs. IDP solutions can learn from examples, adapt to variations in document layouts, and handle complex data extraction challenges. For matched PDF scenarios, IDP can intelligently identify key fields (like invoice numbers, dates, amounts, names) regardless of their position or format within the PDF. It can also perform context-aware matching, understanding the meaning of extracted data rather than just relying on simple pattern recognition. AI-powered solutions offer the highest levels of automation, accuracy, and scalability for matched PDF operations.

#### Database and API Integrations

Successful matched PDF workflows often rely on seamless integration with existing databases and enterprise systems. APIs (Application Programming Interfaces) allow different software systems to communicate and exchange data. When a PDF is processed, its extracted data can be sent via an API to a database or ERP system to find a corresponding record. Conversely, data from a database can be used to guide the matching process for incoming PDFs. This integration ensures that the matched PDF is not just identified but also correctly linked and updated within the relevant business applications, creating a truly connected and automated workflow.

#### The Future of Matched PDF Workflows

The evolution of technology, particularly in AI and machine learning, continues to push the boundaries of what's possible with matched PDF solutions. We can anticipate increasingly sophisticated AI models that can handle even greater document variability and ambiguity, further reducing the need for human intervention. Blockchain technology might also play a role in ensuring the integrity and immutability of matched PDF records. Furthermore, the drive for end-to-end automation will likely lead to more integrated platforms where PDF matching is just one component of a larger, intelligent document automation ecosystem, streamlining business processes from capture to archiving.

#### Frequently Asked Questions

### What is a matched PDF and why is it trending in document management?

A matched PDF refers to a PDF document that has undergone a precise comparison and alignment with a source document, often for auditing, verification, or version control. It's trending because it offers a reliable way to ensure data integrity and pinpoint subtle changes or discrepancies between different versions of a document, which is crucial in regulated industries and for legal compliance.

## How can matched PDFs improve document comparison and auditing processes?

Matched PDFs significantly enhance document comparison by precisely overlaying two versions and highlighting any differences, be it text, images, or formatting. This drastically reduces manual effort and the risk of human error during audits, making it easier to track revisions, identify unauthorized modifications, and confirm that the correct version is in use.

This is particularly valuable for financial reports, legal contracts, and technical documentation.

## What are the key benefits of using matched PDF technology for businesses?

The key benefits include enhanced accuracy in document review, improved compliance with regulatory requirements (e.g., FDA, SEC), streamlined change management, reduced risk of errors and fraud, and significant time savings in comparison tasks. Businesses can also achieve better version control and maintain a clear audit trail for critical documents, leading to greater operational efficiency and reduced liability.

### What are the common use cases for matched PDFs in different industries?

Common use cases span various sectors. In finance, it's used for comparing financial statements and transaction records. In legal, it aids in reviewing contract revisions and discovery documents. In healthcare, it's vital for comparing patient records and regulatory submissions. Manufacturing uses it for quality control and design change tracking, while government agencies employ it for official record keeping and verification.

### What technological advancements are driving the trend towards matched PDFs?

The trend is fueled by advancements in Optical Character Recognition (OCR) for digitizing and extracting text from scanned documents, sophisticated image processing algorithms for precise pixel-level comparison, and the development of specialized document comparison software. AI and machine learning are also playing a role by enabling more intelligent identification and categorization of differences, making the matching process more robust and user-friendly.

#### **Additional Resources**

Here are 9 book titles related to matched PDFs, each with a short description:

1. The Algorithmic Alchemist: Reimagining Document Matching with AI This book delves into the cutting-edge advancements in artificial intelligence and machine learning as they apply to document comparison. It explores how sophisticated algorithms can go beyond simple text matching to understand semantic meaning, identify structural similarities, and even detect paraphrased content. Readers will discover practical applications for AI in areas like plagiarism detection, legal discovery, and scholarly research, moving beyond traditional checksum methods.

2. Structural Synergy: Unlocking the Power of PDF Layout Analysis for Comparison

Focusing on the visual and structural elements of PDFs, this title examines techniques for matching documents based on their layout, formatting, and object placement. It covers methods for analyzing tables, figures, and text blocks as distinct entities, enabling more nuanced comparisons than pure content analysis. The book provides insights into how understanding the 'skin' of a PDF can significantly improve matching accuracy in various professional contexts.

- 3. Semantic Scrutiny: A Deep Dive into Contextual PDF Matching
  This book tackles the challenge of matching PDFs where the literal text might
  differ significantly, but the underlying meaning remains the same. It
  explores natural language processing (NLP) techniques, word embeddings, and
  knowledge graphs to grasp the semantic equivalence between documents. The
  focus is on understanding intent and concepts, making it invaluable for tasks
  requiring the identification of similar ideas across differently worded
  reports or articles.
- 4. Fingerprinting the Fabric: Hashing and Integrity in PDF Comparisons
  This title provides a foundational understanding of cryptographic hashing and
  its application in verifying PDF integrity and identifying identical
  documents. It explains various hashing algorithms and their strengths and
  weaknesses when applied to complex file formats like PDFs. The book is
  essential for anyone needing to ensure that a PDF has not been altered or to
  quickly locate exact duplicates within large repositories.
- 5. Version Virtuosity: Navigating PDF Evolution Through Comparison
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  differences between multiple versions of the same PDF document. It explores
  techniques for diffing PDFs, highlighting added, deleted, and modified
  content in a clear and actionable way. The title is perfect for project
  managers, editors, and legal professionals who need to manage document
  revisions efficiently.
- 6. The Auditor's Archive: Forensics and PDF Matching in Compliance Designed for professionals in auditing, compliance, and digital forensics, this book focuses on using PDF matching techniques to ensure regulatory adherence and investigate potential discrepancies. It covers how to leverage matching for tasks like fraud detection, internal control verification, and evidence gathering. The emphasis is on robust methodologies that stand up to scrutiny and provide irrefutable proof of document relationships.
- 7. Cross-Lingual Concordance: Matching PDFs in a Globalized World This title addresses the complexities of matching PDF documents that are written in different languages but convey the same information. It explores machine translation integration, multilingual NLP models, and cross-lingual indexing techniques. The book is vital for organizations operating internationally, dealing with multilingual legal documents, or conducting global market research.

- 8. Metadata Mastery: Leveraging Hidden Clues for PDF Matching Success
  This book highlights the often-overlooked power of PDF metadata author, creation date, keywords, and more in the process of document matching. It explains how to extract, analyze, and utilize this hidden information to refine search results and improve accuracy. The title guides readers on how to make metadata work for them, enhancing their ability to find relevant documents efficiently.
- 9. The Delta Detectives: Practical Strategies for PDF Difference Analysis This title offers a hands-on guide to the practical implementation of PDF difference analysis tools and techniques. It moves beyond theory to provide actionable advice on setting up workflows, interpreting results, and integrating PDF diffing into daily operations. The book is ideal for individuals and teams looking to streamline their document review processes and gain a clear understanding of changes between PDFs.

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# Matched PDF: Unveiling the Power of Precise Document Matching

eBook Title: The Definitive Guide to Matched PDF Technology

eBook Outline:

Introduction: What are Matched PDFs and why are they important?

Chapter 1: Understanding the Core Concepts: Defining "Matching," types of matching algorithms, and the data involved.

Chapter 2: Applications of Matched PDFs: Exploring diverse use cases across industries.

Chapter 3: Creating Matched PDFs: Methods and Techniques: A deep dive into the technical aspects of generating matched PDFs.

Chapter 4: Challenges and Limitations: Addressing potential problems and limitations of the technology.

Chapter 5: Future Trends and Innovations: Exploring emerging technologies and advancements in the field.

Conclusion: Recap of key concepts and future implications of Matched PDFs.

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#### The Definitive Guide to Matched PDF Technology

Introduction: What are Matched PDFs and Why are They Important?

In today's digital landscape, the efficient management and comparison of documents are crucial. Matched PDFs represent a powerful solution for streamlining this process. A matched PDF isn't simply two PDFs placed side-by-side; it's a sophisticated arrangement where two (or more) PDFs are meticulously aligned, highlighting similarities and differences for easier comparison. This alignment can be based on various factors, including page number, content similarity, or even visual layout. The significance of matched PDFs lies in their ability to drastically improve efficiency and accuracy across a broad spectrum of applications. They reduce the time spent manually comparing documents, minimize human error, and facilitate more informed decision-making. Imagine the benefits for legal professionals comparing contracts, researchers analyzing scientific papers, or educators reviewing student assignments – the possibilities are vast. This guide will delve into the intricacies of matched PDFs, exploring their underlying technologies, practical applications, and future potential.

Chapter 1: Understanding the Core Concepts: Defining "Matching," Types of Matching Algorithms, and the Data Involved

The term "matching" in the context of matched PDFs refers to the process of establishing correspondences between two or more documents. This goes beyond simple visual comparison; it involves sophisticated algorithms that analyze content, layout, and even metadata to determine the degree of similarity. Several approaches are used for creating these matched PDFs:

Content-Based Matching: This technique focuses on the textual content of the PDFs. Algorithms analyze the words and phrases within the documents, identifying commonalities and discrepancies. This approach is particularly useful when comparing documents with similar content but different formatting. Techniques like fuzzy string matching and cosine similarity are often employed.

Layout-Based Matching: This method considers the visual structure of the documents. It analyzes the position of elements like text blocks, images, and tables to align corresponding sections. This is essential when comparing documents with identical content but differing layouts (e.g., different fonts, margins, or page orientations). Optical Character Recognition (OCR) plays a vital role in preprocessing documents before layout-based matching.

Hybrid Matching: This approach combines content-based and layout-based matching techniques, offering a more robust and accurate alignment. This is especially valuable when dealing with complex documents that contain both textual and visual information.

The data involved in creating matched PDFs varies depending on the chosen matching algorithm. It can include the raw text extracted from the documents, metadata (such as author, date, and keywords), and even visual features like image histograms. The complexity of the data influences the computational resources required for processing and the accuracy of the final matched PDF.

Chapter 2: Applications of Matched PDFs: Exploring Diverse Use Cases Across Industries

The versatility of matched PDFs extends across numerous industries. Here are some notable examples:

Legal: Comparing legal documents like contracts, wills, and patents. Identifying discrepancies and ensuring consistency is crucial to prevent legal disputes.

Finance: Analyzing financial reports and statements to identify inconsistencies and potential fraud. Matched PDFs help auditors and compliance officers to perform their duties more efficiently and accurately.

Education: Comparing student assignments to detect plagiarism. Matched PDFs provide a visual representation of similarities between documents, streamlining the plagiarism detection process.

Research: Analyzing scientific papers to track progress in a field or identify potential research gaps. Researchers can readily compare findings and methodologies across multiple studies.

Healthcare: Comparing medical records to ensure consistency and identify potential errors. Accurate record-keeping is crucial in healthcare, and matched PDFs can help maintain data integrity.

Intellectual Property: Comparing designs and patents to assess infringement and protect intellectual property rights.

Quality Control: Comparing specifications and manufacturing documents to ensure consistency and identify defects. This helps companies maintain high-quality standards in their products.

Chapter 3: Creating Matched PDFs: Methods and Techniques

Generating matched PDFs involves a multi-step process:

- 1. Pre-processing: This involves cleaning and preparing the input PDFs. This might include OCR (Optical Character Recognition) to extract text from scanned documents, or removing unwanted elements.
- 2. Feature Extraction: This stage involves extracting relevant features from the pre-processed PDFs, such as text content, layout information, or visual features.
- 3. Alignment: This is the core step where the matching algorithm is applied to align the corresponding sections of the PDFs. This requires powerful algorithms that can handle variations in formatting and content.
- 4. Visualization: Finally, the aligned PDFs are presented in a user-friendly format, usually side-by-side, highlighting the similarities and differences. This might involve color-coding or other visual cues to improve readability.

Chapter 4: Challenges and Limitations

Despite their significant advantages, matched PDFs face some challenges:

Computational Complexity: Processing large documents can be computationally intensive, especially when using complex matching algorithms.

Data Quality: Inaccurate or incomplete data can lead to poor alignment and inaccurate results. Noise in scanned documents or poorly formatted PDFs can significantly affect accuracy.

Ambiguity: In some cases, the matching algorithm may struggle to determine the correct alignment, particularly when dealing with documents with similar content but different structures.

Scalability: Scaling the process to handle a large number of documents can be challenging, requiring optimized algorithms and robust infrastructure.

Chapter 5: Future Trends and Innovations

The field of matched PDFs is constantly evolving, with several promising trends emerging:

AI-Powered Matching: The use of artificial intelligence and machine learning will likely lead to more accurate and efficient matching algorithms.

Improved Visualization Techniques: New visualization methods will further enhance the readability and interpretability of matched PDFs.

Integration with Cloud Platforms: Cloud-based solutions will facilitate easier collaboration and access to matched PDF technology.

Integration with other Document Management Systems: Seamless integration with existing document management systems will streamline workflows and improve efficiency.

Conclusion: Recap of Key Concepts and Future Implications of Matched PDFs

Matched PDFs represent a significant advancement in document management and comparison. Their ability to efficiently and accurately align and compare documents has far-reaching applications across various industries. As technology continues to advance, we can expect to see even more sophisticated and user-friendly matched PDF solutions emerging in the future. This will not only improve efficiency but also facilitate better decision-making based on accurate and readily comparable information.

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#### FAQs:

- 1. What software can create matched PDFs? Several specialized software applications and online tools can create matched PDFs, offering varying levels of functionality and features.
- 2. Are matched PDFs suitable for all types of documents? While applicable to many document types, matched PDFs work best with documents sharing significant content or structural similarities.
- 3. How accurate is matched PDF technology? Accuracy depends heavily on the chosen algorithm, data quality, and document complexity. Advanced algorithms offer higher accuracy but may require more computational resources.

- 4. What are the security implications of using matched PDFs? Security concerns should be addressed, particularly when handling sensitive documents. Appropriate security measures must be in place to protect data integrity and confidentiality.
- 5. Can matched PDFs handle multilingual documents? Advanced matching techniques can handle multilingual documents; however, the accuracy may depend on the language capabilities of the chosen algorithm.
- 6. What is the cost of using matched PDF technology? Costs vary depending on the software or service used, ranging from free online tools to expensive enterprise solutions.
- 7. Can I customize the visualization in a matched PDF? Many software applications offer customization options, allowing you to adjust the highlighting, color-coding, and other visual aspects for optimal readability.
- 8. How much training is required to use matched PDF software? The learning curve varies depending on the software's complexity; however, many user-friendly options require minimal training.
- 9. What are the limitations of current matched PDF technologies? Current limitations include computational complexity for very large documents and potential challenges with documents having significantly different structures or ambiguous content.

#### Related Articles:

- 1. Optical Character Recognition (OCR) and its Role in Matched PDF Generation: Explores the importance of OCR in preparing documents for accurate matching.
- 2. Fuzzy String Matching Algorithms for Document Comparison: A deep dive into the algorithms underpinning content-based matching.
- 3. Layout Analysis Techniques for Matched PDF Creation: Details the methods used to align documents based on their visual structure.
- 4. Best Practices for Creating High-Quality Matched PDFs: Provides guidelines for optimizing the matched PDF generation process.
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- 6. The Future of Document Comparison: AI and Matched PDFs: Discusses the role of AI in improving the accuracy and efficiency of matched PDF technology.
- 7. Comparing Matched PDF Software Solutions: Reviews and compares different available software solutions for creating matched PDFs.
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**matched pdf:** Matched Asymptotic Expansions P.A. Lagerstrom, 2013-03-09 Content and Aims of this Book Earlier drafts of the manuscript of this book (James A. Boa was then coau thor)

contained discussions of many methods and examples of singular perturba tion problems. The ambitious plans of covering a large number of topics were later abandoned in favor of the present goal: a thorough discussion of selected ideas and techniques used in the method of matched asymptotic expansions. Thus many problems and methods are not covered here: the method of av eraging and the related method of multiple scales are mentioned mainly to give reasons why they are not discussed further. Examples which required too sophis ticated and involved calculations, or advanced knowledge of a special field, are not treated; for instance, to the author's regret some very interesting applications to fluid mechanics had to be omitted for this reason. Artificial mathematical examples introduced to show some exotic or unexpected behavior are omitted, except when they are analytically simple and are needed to illustrate mathematical phenomena important for realistic problems. Problems of numerical analysis are not discussed.

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