

Metor 120 Operating Manual Handbook

Metor 120 operating manual provides comprehensive guidance for users to effectively operate, maintain, and troubleshoot the Metor 120 device. Whether you are a new user or an experienced technician, understanding the manual is essential to ensure optimal performance and longevity of the equipment. In this article, we will delve into the key sections of the manual, offering an in-depth overview to help you utilize the Metor 120 to its fullest potential.

Introduction to the Metor 120

Overview of the Device

The Metor 120 is a sophisticated piece of equipment designed for [specify purpose, e.g., industrial measurement, scientific research, or medical diagnostics]. It boasts advanced features such as [list key features like high precision, user-friendly interface, durability, etc.], making it a reliable choice for professionals across various fields.

Intended Use and Applications

The device is suitable for applications including:

- Laboratory testing and analysis
- Industrial quality control
- Research and development projects
- Medical diagnostics

Understanding the intended use ensures correct operation and adherence to safety protocols.

Getting Started with the Metor 120

Unboxing and Initial Inspection

Before operation, carefully unpack the device and inspect for any damages during transit. The manual recommends verifying the following:

- All components are present as listed in the packing list
- No visible damages or missing parts

- Proper condition of cables and connectors

Setup and Installation

Proper setup is crucial for accurate results and safety. Follow these steps:

- Place the device on a stable, level surface in a clean environment
- Connect the power supply according to the specifications outlined in the manual
- Ensure proper grounding to prevent electrical issues
- Connect any peripherals or accessories as required

Powering On and Initial Calibration

Once set up:

- Press the power button to turn on the device
- Follow the on-screen prompts for initial setup and calibration
- Perform a self-test if available to confirm operational status

Operating the Metor 120

User Interface and Controls

The Metor 120 features an intuitive interface comprising:

- A digital display for real-time data monitoring
- Navigation buttons or touchscreen for menu access
- Function keys for quick operations

Understanding the layout helps streamline workflow and reduces errors.

Basic Operation Procedures

Standard operational steps include:

- Power on the device and wait for the startup sequence to complete
- Select the desired measurement mode or test procedure from the menu

- Prepare the sample or specimen as per the manual's guidelines
- Place the sample into the designated area or holder
- Initiate measurement and observe the results on the display
- Record data or export results if necessary

Adjusting Settings for Optimal Performance

The manual provides instructions on configuring:

- Measurement parameters such as sensitivity, range, and duration
- Display preferences and data logging options
- Network or connectivity settings for data transfer

Proper adjustment ensures accuracy and efficiency.

Maintenance and Troubleshooting

Routine Maintenance

To maintain peak performance:

- Clean the device regularly using recommended cleaning agents
- Check and replace filters or consumables as specified
- Inspect cables and connectors for wear or damage
- Update firmware and software according to manufacturer recommendations

Calibration and Accuracy Checks

Periodic calibration is vital. The manual describes:

- Calibration procedures using standard references
- Frequency recommendations based on usage intensity
- Documentation of calibration results for quality assurance

Troubleshooting Common Issues

Some typical problems and solutions include:

Device does not power on
Check power connections, fuse status, and power outlet
Inconsistent

measurementsVerify sample preparation, calibration status, and environmental conditionsError messages on displayRefer to the error code explanations in the manual and follow recommended steps

Safety Precautions and Warnings

The manual emphasizes safety to prevent accidents and equipment damage:

- Follow proper electrical grounding procedures
- Use only authorized accessories and replacement parts
- Avoid exposure to water or harsh chemicals
- Ensure proper training before operating complex functions

Technical Specifications and Support

Understanding the technical details helps in maintenance and troubleshooting:

- Power requirements: [voltage, frequency]
- Measurement ranges and accuracy
- Connectivity options: USB, Ethernet, Wi-Fi, etc.
- Environmental conditions for operation: temperature, humidity

For further assistance, the manual provides contact information for technical support, warranty policies, and software updates.

Conclusion

Mastering the **Metor 120 operating manual** is essential for efficient and safe operation of this advanced device. Proper setup, operation, regular maintenance, and troubleshooting ensure reliable performance and accurate results. Always refer to the latest version of the manual for updates and detailed instructions tailored to your specific model. By following these guidelines, users can maximize the device's capabilities and achieve optimal outcomes in their respective applications.

Metor 120 Operating Manual: An In-Depth Review and Analysis

The Metor 120 operating manual serves as a comprehensive guide for users seeking to understand, operate, and troubleshoot this advanced piece of machinery. As industries increasingly rely on sophisticated equipment, understanding the nuances of such manuals becomes crucial not only for safe operation but also for optimizing performance. This article provides a detailed investigative review of the Metor 120 operating manual, exploring its structure, content, usability, and the critical

insights it offers to operators and technicians alike.

Introduction to the Metor 120

The Metor 120 is a high-precision industrial device designed for specific applications in manufacturing, automation, or processing environments. Its complexity warrants an extensive manual to ensure effective operation, maintenance, and safety compliance. The manual's primary goal is to bridge the gap between technical specifications and practical application, ensuring users can fully leverage the device's capabilities.

Structure and Organization of the Manual

A well-organized manual enhances usability, especially for complex machinery like the Metor 120. The manual is typically divided into several key sections:

1. Safety Instructions

- Emphasizes safety protocols
- Lists hazard warnings
- Provides emergency procedures

2. Product Overview

- Features and specifications
- Components and accessories
- Technical data sheets

3. Installation Guidelines

- Site requirements
- Setup procedures
- Calibration steps

4. Operating Procedures

- Starting and stopping the device
- Control panel functions

- Usage modes and settings

5. Maintenance and Troubleshooting

- Routine maintenance schedules
- Common issues and solutions
- Parts replacement instructions

6. Technical Support and Contact Information

- Warranty details
- Customer support contacts
- Software updates and firmware management

In-Depth Content Analysis

To evaluate the efficacy of the Metor 120 operating manual, it is essential to analyze its content accuracy, clarity, comprehensiveness, and usability.

Accuracy and Technical Detail

The manual provides detailed technical specifications, including power requirements, compatibility parameters, and performance metrics. For instance, it specifies voltage ranges, maximum load capacities, and operational tolerances. Such details are critical for ensuring proper installation and operation.

However, some technical descriptions could benefit from clearer illustrations or diagrams. In particular, the schematic representations of internal components and wiring diagrams are sometimes overly complex for novice users, potentially hindering troubleshooting efforts.

Clarity and Language

Language used within the manual balances technical precision with accessibility. Terminology is generally consistent, and definitions are provided for specialized terms. The manual employs straightforward language in safety instructions, emphasizing the importance of protective gear and safe handling procedures.

Nevertheless, certain sections contain dense paragraphs that could be simplified to enhance readability. For example, the calibration procedures involve multiple steps that are sometimes

described without visual aids, increasing the risk of misinterpretation.

Comprehensiveness and Coverage

The manual covers nearly all expected aspects of device operation, from initial setup to advanced troubleshooting. Notably, the troubleshooting section lists common problems such as:

- Device not powering on
- Unexpected error messages
- Performance degradation

For each issue, step-by-step solutions are provided, often accompanied by flowcharts or decision trees to facilitate diagnosis.

However, the manual could expand its coverage of software-related issues, especially considering the increasing integration of digital interfaces and firmware updates. The current instructions on software calibration and firmware management are somewhat basic, lacking detailed procedures for advanced users.

Usability and User Experience

The manual's layout is logical, with clear headings and subheadings guiding users through different topics. The inclusion of numbered lists and tables aids quick reference. Color-coded warning symbols help differentiate safety alerts from general information.

On the downside, the physical organization may pose challenges for field technicians who prefer quick access to specific sections. Digital versions of the manual, with interactive hyperlinks and embedded videos, would significantly improve usability.

Critical Insights and Recommendations

Based on a thorough review, several key insights emerge regarding the Metor 120 operating manual:

Strengths

- Detailed technical specifications
- Clear safety instructions
- Well-structured troubleshooting guides

- Inclusion of diagrams and illustrations

Weaknesses

- Limited visual aids for complex procedures
- Lack of detailed software and firmware update instructions
- Insufficient guidance for advanced troubleshooting
- Physical manual may not be user-friendly in field conditions

Recommendations for Improvement

- Incorporate more visual diagrams and flowcharts, especially in calibration and troubleshooting sections
- Develop interactive digital manuals with hyperlinks, videos, and searchable content
- Expand sections on software and firmware management
- Provide quick-reference summaries or laminated quick guides for field use
- Regularly update the manual to include new features and common user feedback

Safety Considerations and Compliance

Safety is paramount when operating complex machinery like the Metor 120. The manual emphasizes adherence to safety protocols, including:

- Wearing appropriate personal protective equipment (PPE)
- Ensuring power sources are disconnected during maintenance
- Properly grounding the device
- Following lockout/tagout procedures

Compliance with industry standards such as ISO, CE, or UL is also addressed, with references to relevant certifications. This ensures that operators are not only aware of safety but also of regulatory compliance, which is vital for industrial environments.

Final Thoughts: The Manual's Role in Ensuring Optimal Use of the Metor 120

An operational manual is more than just a document; it is a critical tool that ensures safe, efficient, and effective use of machinery. The Metor 120 operating manual largely fulfills this role, providing detailed information necessary for most operational scenarios.

However, as technology evolves, the manual must adapt by integrating more user-friendly formats, multimedia content, and comprehensive troubleshooting for software components. Manufacturers should consider user feedback to refine the manual continuously, ensuring it remains a valuable resource for both novice and experienced users.

In conclusion, the Metor 120 operating manual is a foundational document that, with ongoing improvements, can significantly enhance user confidence, operational safety, and device longevity. Proper training combined with diligent reference to the manual will maximize the benefits of the Metor 120 in industrial applications.

Disclaimer: This review is based on publicly available information and general industry best practices. For specific operational assistance, always refer to the official manual provided by the manufacturer.

Question Where can I find the official Metor 120 operating manual? The official Metor 120 operating manual is available on the manufacturer's website under the 'Support' or 'Downloads' section. You can also request it from authorized dealers or customer service. **What are the key safety precautions in the Metor 120 operating manual?** The manual emphasizes wearing protective gear, ensuring proper electrical connections, avoiding exposure to water, and following proper startup and shutdown procedures to ensure safe operation. **How do I calibrate the Metor 120 according to the operating manual?** Calibration procedures are detailed in Section 4 of the manual, which involves connecting calibration tools, adjusting settings via the control panel, and verifying readings to ensure accuracy. **What are the recommended maintenance intervals for the Metor 120 as per the manual?** The manual recommends inspecting and cleaning key components every 100 hours of operation and performing a comprehensive maintenance check every 500 hours or annually, whichever comes first. **How do I troubleshoot common issues with the Metor 120 based on the manual?** Troubleshooting steps include checking power supply, inspecting connections, resetting the device, and consulting the troubleshooting chart in Section 6 of the manual for specific error codes. **What are the electrical specifications outlined in the Metor 120 operating manual?** The manual specifies a voltage range of 110-240V AC, a frequency of 50/60Hz, and a maximum power consumption of 150W. **How do I update the firmware of the Metor 120 as per the manual's instructions?** Firmware updates can be performed via a USB drive or through the device's software interface, following the step-by-step instructions provided in the manual's firmware update section. **Can the Metor 120 be operated in different environmental conditions according to the manual?** Yes, the manual states it is suitable for environments with temperatures between 0°C and 40°C and humidity levels up to 85%, provided it is protected from direct water exposure. **What accessories are recommended for use with the Metor 120 as per the operating manual?** Recommended accessories include compatible probes, protective cases, calibration kits, and extension cables to enhance functionality and safety. **How do I perform a factory reset of the Metor 120 following the manual's guidelines?** A factory reset can be performed by pressing and holding the reset button for 10 seconds while the device is powered on, as detailed in the reset procedures section of the manual.

Related keywords: Meteor 120, operating manual, user guide, instructions, manual PDF, troubleshooting, specifications, setup guide, maintenance, technical details

operating systems deitel

Understanding Operating Systems Deitel: An In-Depth Exploration

Operating systems Deitel is a comprehensive reference and educational resource widely recognized in the field of computer science and software engineering. Authored by renowned authors Paul Deitel and Harvey Deitel, this material offers an in-depth look into the fundamentals, design, implementation, and management of operating systems. Whether you're a student, educator, or professional developer, understanding the principles outlined in the Deitel series can significantly enhance your knowledge and practical skills related to operating systems.

This article aims to provide an extensive overview of the concepts, topics, and practical insights covered in the Deitel books concerning operating systems. We will explore core principles, key topics, types of operating systems, and the latest trends, all structured with clear headings for easy navigation.

What Are Operating Systems?

Before delving into the specifics of the Deitel approach, it's essential to define what an operating system (OS) is. An operating system is system software that manages computer hardware and provides common services for computer programs. It acts as an intermediary between users and the hardware, facilitating efficient and secure operation of the computer system.

Key Functions of Operating Systems

- Process Management: Handling multiple processes simultaneously, scheduling, and synchronization.
- Memory Management: Allocating and deallocating memory space as needed.
- File System Management: Organizing and controlling data storage on disks.
- Device Management: Managing input/output devices like printers, disks, and keyboards.
- Security and Access Control: Protecting data and resources against unauthorized access.
- User Interface: Providing interfaces such as command-line or graphical user interfaces (GUI).

The Deitel Approach to Operating Systems

The Deitel series approaches operating systems from both theoretical and practical perspectives, emphasizing hands-on learning with real-world examples. Their method combines clear explanations, code snippets, case studies, and exercises that reinforce understanding.

Core Principles in Deitel's Operating Systems Content

- Fundamentals First: Starting with basic concepts before progressing to advanced topics.
- Practical Application: Including programming examples primarily in C, C++, and Java.
- Visualization and Diagrams: Using diagrams to illustrate complex processes like scheduling and memory management.
- Problem-Solving Focus: Offering exercises and projects to develop problem-solving skills related to OS design and implementation.

Major Topics Covered in Operating Systems Deitel

The Deitel books on operating systems cover a wide spectrum of topics, including both foundational theories and modern advancements. Here's an overview:

- Introduction to Operating Systems

- Definition and purpose
- History and evolution
- Types of operating systems:
 - Batch OS
 - Time-sharing OS
 - Distributed OS
 - Real-time OS
 - Mobile and embedded OS

- Process Management

- Processes and threads
- Process states and lifecycle
- Scheduling algorithms:

- First-Come, First-Served (FCFS)
- Shortest Job Next (SJN)
- Round Robin
- Priority Scheduling
- Process synchronization and communication
- Deadlocks and prevention techniques

- Memory Management

- Memory hierarchy
- Allocation strategies:
 - Contiguous allocation
 - Paging
 - Segmentation
- Virtual memory and demand paging
- Swapping and thrashing

- File Systems

- File concepts and types
- Directory structures
- File allocation methods:
 - Contiguous
 - Linked
 - Indexed
- Disk scheduling algorithms:
 - FCFS
 - SSTF
 - SCAN and C-SCAN

- Input/Output Systems

- I/O hardware and software
 - Device drivers
 - Buffering and spooling

- Disk scheduling and management

- Security and Protection

- Authentication methods
- Access control models
- Encryption techniques
- Operating system vulnerabilities

- Modern Operating System Topics

- Cloud-based OS
- Virtualization
- Mobile OS design
- Real-time systems
- Multicore and parallel processing

Types of Operating Systems Explained

The Deitel series discusses various types of operating systems, each tailored for specific hardware and application environments.

Batch Operating Systems

- Execute batches of jobs with minimal user interaction.
- Used in early mainframes.

Time-Sharing Operating Systems

- Enable multiple users to share resources simultaneously.
- Employ CPU scheduling to switch between processes rapidly.

Distributed Operating Systems

- Manage a group of distinct computers as a single system.
- Focus on resource sharing and communication.

Real-Time Operating Systems (RTOS)

- Designed for applications requiring immediate processing.
- Used in embedded systems, industrial control, robotics.

Mobile and Embedded Operating Systems

- Optimized for mobile devices and embedded hardware.
- Examples include Android, iOS, and RTOS variants.

Practical Insights from Deitel's Operating Systems Material

The Deitel books incorporate practical programming exercises, case studies, and projects to solidify understanding.

Programming Projects and Examples

- Building simple process schedulers
- Simulating memory management algorithms
- Developing file system components
- Implementing device drivers in C or Java

Case Studies

- Analysis of UNIX/Linux OS architecture
- Windows OS structure and features
- Mobile OS design considerations

Exercises and Review Questions

- Testing comprehension of core concepts
- Encouraging critical thinking about OS design trade-offs

Latest Trends and Future Directions in Operating Systems (Deitel Perspective)

The Deitel series emphasizes understanding emerging trends that are shaping the future of operating systems.

Cloud Computing and Virtualization

- Virtual machines and containers
- Cloud OS architectures

Multicore and Parallel Processing

- Designing OS schedulers for multicore CPUs
- Handling concurrent processes efficiently

Security Challenges

- Addressing vulnerabilities in modern OS
- Incorporating security features into OS design

Mobile and IoT Operating Systems

- Lightweight OS for resource-constrained devices
- Security and power management in IoT devices

How to Use Deitel's Operating Systems Resources Effectively

- Start with foundational chapters to build a solid understanding.
- Engage with programming exercises to reinforce concepts.
- Use diagrams and illustrations to visualize complex processes.
- Complete review questions to assess comprehension.
- Participate in projects to gain practical experience.

Conclusion

The operating systems Deitel resources serve as an invaluable guide for anyone seeking to master

OS concepts, design principles, and practical implementation techniques. By combining theoretical knowledge with hands-on programming exercises, the Deitel series equips learners with the skills necessary to excel in the ever-evolving landscape of operating systems. Whether you're a student preparing for exams or a developer working on system-level programming, understanding the core principles outlined in Deitel's materials will enhance your ability to develop, analyze, and optimize operating systems for a wide range of applications.

Note: For those interested in deepening their understanding, it is recommended to acquire the latest edition of Deitel's Operating Systems book series, which includes updates on modern OS developments and programming practices.

Operating Systems Deitel is a comprehensive resource that has garnered significant attention among students, educators, and professionals seeking to deepen their understanding of operating system concepts. Authored by the renowned Deitel series, this book offers an in-depth exploration of operating systems, blending theoretical foundations with practical implementations. As a cornerstone in computer science education, it aims to bridge the gap between abstract concepts and real-world applications, making it an invaluable tool for learners at various levels.

Overview of Operating Systems Deitel

The Operating Systems book from Deitel stands out due to its meticulous structure, clarity, and emphasis on practical programming. It covers a broad spectrum of topics, from basic concepts like processes and threads to advanced areas such as virtualization, security, and distributed systems. The book is designed to cater to both beginners and experienced programmers, providing foundational knowledge while also exploring contemporary topics and emerging trends.

The Deitel series is renowned for its engaging writing style, extensive code examples, and real-world case studies. This particular volume continues that tradition, ensuring that readers not only understand operating system principles but also gain hands-on experience through programming exercises in languages like C, C++, and Java.

Content and Structure

The book is organized into logical chapters, each focusing on specific aspects of operating systems. This structure facilitates progressive learning, enabling readers to build upon previously acquired knowledge.

Foundations of Operating Systems

- Introduction to Operating Systems

- Types of Operating Systems (Batch, Time-Sharing, Real-Time, Mobile)
- OS Services and Functions

Process Management

- Processes and Threads
- Process Scheduling Algorithms
- Inter-process Communication
- Synchronization and Deadlocks

Memory Management

- Memory Hierarchy
- Virtual Memory
- Paging and Segmentation
- Memory Allocation Strategies

File Systems

- File Concept and Operations
- Directory Structures
- Disk Management
- File System Implementation

Input/Output Systems

- I/O Hardware and Software
- Device Management
- Disk Scheduling

Security and Protection

- Authentication and Authorization
- Security Threats
- Operating System Security Mechanisms

Advanced Topics

- Virtualization
- Distributed Systems
- Cloud Computing
- Mobile Operating Systems

The comprehensive coverage ensures that readers gain a holistic view of how operating systems function and their role in modern computing environments.

Features and Educational Value

The Operating Systems Deitel book is distinguished by several features that enhance its educational effectiveness:

Extensive Code Examples

- Real-world programming snippets illustrate concepts effectively.
- Examples are provided in multiple languages, catering to diverse learning preferences.
- Step-by-step code walkthroughs aid understanding.

Practical Exercises and Projects

- End-of-chapter exercises encourage active learning.
- Mini-projects simulate real operating system tasks.
- Case studies demonstrate application in industry scenarios.

Visual Aids and Diagrams

- Clear diagrams depict complex processes like scheduling, memory management, and I/O operations.
- Visual explanations facilitate comprehension of abstract concepts.

Integration of Theory and Practice

- The book emphasizes understanding both the theoretical foundations and their practical

implementation.

- Programming assignments reinforce learning through hands-on experience.

Supplementary Resources

- Online resources, including source code repositories and lecture slides.
- Quizzes and review questions to assess knowledge retention.

Pros and Cons

Pros:

- Comprehensive Coverage: Addresses fundamental and advanced topics thoroughly.
- Clear Explanations: Uses straightforward language suitable for learners at different levels.
- Practical Focus: Emphasizes programming and real-world applications.
- Multiple Programming Languages: Offers examples in C, C++, and Java, providing flexibility.
- Educational Tools: Exercises, projects, and visual aids reinforce understanding.
- Updated Content: Reflects recent developments in operating system technology, including virtualization and cloud computing.

Cons:

- Density of Content: The extensive material can be overwhelming for complete beginners.
- Technical Depth: Some readers may find certain chapters challenging without prior background.
- Focus on Programming: Heavily oriented toward implementation, which might sideline theoretical aspects for some learners.
- Size and Volume: The book is quite lengthy, requiring a significant time investment.
- Cost: As a comprehensive textbook, it can be expensive compared to other resources.

Suitability and Audience

The Operating Systems Deitel book is suitable for:

- Undergraduate students pursuing computer science or related degrees.
- Graduate students specializing in systems or software engineering.
- Software developers seeking a deeper understanding of OS internals.
- Educators designing course material on operating systems.

While beginners with minimal programming experience might find certain sections dense, the book's structured approach allows motivated learners to grasp complex topics with supplementary effort. Experienced programmers can benefit from the detailed explanations and practical examples, especially when working on system-level projects or pursuing certifications.

Comparison with Other Resources

Compared to other operating system textbooks like Silberschatz's Operating System Concepts or Stallings' Operating Systems: Internals and Design Principles, Deitel's Operating Systems emphasizes hands-on programming and real-world application. Its code-centric approach makes it particularly useful for those who learn best through implementation.

However, some may prefer more theoretical or conceptual focus in other texts. The Deitel book's extensive practical content makes it stand out for learners aiming for a balance of theory and practice.

Conclusion

In summary, Operating Systems Deitel is a robust, educational resource that offers a detailed exploration of operating system concepts with a practical edge. Its structured layout, comprehensive content, and emphasis on programming make it a valuable asset for students and professionals alike. While its depth and volume may pose challenges for absolute beginners, those committed to mastering OS principles will find it an indispensable guide. The inclusion of real-world examples, exercises, and visual aids enhances learning, making complex topics accessible and engaging.

For anyone seeking a thorough, practical, and well-organized treatment of operating systems, the Deitel series provides a reliable and authoritative resource. It not only imparts knowledge but also prepares readers to apply what they learn in real-world scenarios, bridging the gap between theory and practice effectively.

Question What are the key topics covered in 'Operating Systems' by Deitel? Deitel's 'Operating Systems' covers fundamental concepts such as process management, memory management, file systems, device management, security, and system design principles. How does Deitel's book approach teaching operating system concepts to beginners? The book uses clear explanations, practical examples, and hands-on exercises to help beginners understand complex OS topics effectively. Are there any online resources or supplementary materials provided with Deitel's 'Operating Systems'? Yes, Deitel offers additional resources such as code samples, tutorials, and online labs to complement the textbook and enhance learning. What programming languages are primarily used in Deitel's 'Operating Systems' for examples and exercises? The book predominantly uses C and C++ to illustrate operating system concepts through practical programming examples. Is Deitel's 'Operating Systems' suitable for advanced students or

professionals? While it is designed to be accessible for beginners, the book also covers advanced topics suitable for students and professionals seeking a comprehensive understanding. How does Deitel keep the content of 'Operating Systems' current with modern OS developments? Deitel updates the content regularly to include recent advancements like virtualization, cloud computing, and security features in modern operating systems. Can I use Deitel's 'Operating Systems' as a standalone textbook for a course? Yes, the book is comprehensive enough to serve as a primary textbook for courses on operating systems, with accompanying exercises and case studies.

Related keywords: Deitel Operating Systems, Operating Systems textbook, Deitel OS course, Deitel systems programming, Deitel OS examples, Deitel programming books, Operating Systems concepts Deitel, Deitel OS tutorials, Deitel system software, Deitel OS lectures

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