mobilux ep2 equivalent

What is Mobilux EP2 and Why Look for Equivalents?

Mobilux EP2 equivalent options are sought after by many industries that rely on high-performance lubricating greases for critical machinery. Mobilux EP2 is a widely recognized and trusted brand, known for its excellent extreme pressure (EP) properties, water resistance, and long service life. However, factors such as availability, cost, specific application requirements, or a desire to explore alternative formulations can lead users to investigate comparable products. Understanding the key characteristics of Mobilux EP2 is crucial for identifying suitable replacements that offer similar or even enhanced performance. This article will delve into the technical specifications of Mobilux EP2, explore the critical factors to consider when selecting an equivalent, and present a range of potential alternatives.

Understanding Mobilux EP2: Key Features and Benefits

Mobilux EP2 is a premium, multipurpose lubricating grease formulated with high-quality mineral oils and a lithium complex soap thickener. Its distinctive "EP" designation signifies its exceptional extreme pressure capabilities, making it ideal for applications subjected to heavy loads and shock conditions. This grease is engineered to provide superior protection against wear, corrosion, and rust, even in the presence of water. Its excellent mechanical stability ensures it maintains its consistency and lubricating properties over extended periods and a wide temperature range. The multibase soap technology contributes to its remarkable resistance to washout and degradation, which are common issues in demanding industrial environments. These attributes make Mobilux EP2 a go-to lubricant for various equipment, from industrial machinery and bearings to automotive components and agricultural implements.

Composition and Thickener Technology

The primary thickener in Mobilux EP2 is a lithium complex soap. This advanced soap system provides excellent shear stability, thermal resistance, and resistance to water washout compared to conventional lithium greases. The complex structure of the soap molecules creates a robust lubricating film that can withstand high pressures without breaking down. The base oil used is typically a high-viscosity mineral oil, carefully selected for its inherent lubricating properties and compatibility with the thickener. Additives are also incorporated, including anti-wear agents and rust and corrosion

inhibitors, to further enhance the grease's protective capabilities.

Performance Characteristics

Mobilux EP2 exhibits a strong performance profile characterized by its high dropping point, indicating its ability to maintain its semi-solid state at elevated temperatures. Its water washout resistance is a significant advantage, ensuring that lubrication is maintained even in wet or humid conditions. The grease also demonstrates good pumpability, which is important for centralized lubrication systems. Its extreme pressure additives provide a protective barrier that prevents metal-to-metal contact under heavy loads, thereby reducing wear and extending the life of machine components. Furthermore, its rust and corrosion inhibition properties protect metal surfaces from environmental damage.

Criteria for Selecting a Mobilux EP2 Equivalent

When searching for a Mobilux EP2 equivalent, it is imperative to consider several key performance criteria to ensure the chosen lubricant meets the demands of your specific application. Simply matching the brand name or general type is insufficient; a thorough evaluation of technical specifications is necessary. Factors such as the operating temperature range, load-carrying capacity, water resistance requirements, and compatibility with existing seals and materials are paramount. The viscosity of the base oil, the type of thickener, and the presence of EP additives are all critical components that dictate performance. A detailed understanding of these elements will guide you toward a lubricant that offers comparable or even superior protection and longevity for your machinery.

Thickener Type and Consistency (NLGI Grade)

The consistency of a grease is measured by its National Lubricating Grease Institute (NLGI) grade. Mobilux EP2 is typically an NLGI Grade 2 grease, which signifies a semi-solid consistency that balances ease of application with the ability to stay in place and provide effective lubrication. When looking for an equivalent, matching the NLGI grade is essential. The thickener type is equally important. As mentioned, Mobilux EP2 uses a lithium complex thickener. Equivalents should ideally also feature a lithium complex or a similar advanced soap technology that provides comparable resistance to heat, water, and mechanical shear. Other thickeners like lithium, calcium, or polyurea might be suitable in certain situations, but a lithium complex often offers the most direct comparison in terms of overall performance.

Base Oil Viscosity and Additive Package

The viscosity of the base oil in a grease is crucial for its lubricating film strength and performance at different temperatures. Mobilux EP2 utilizes a specific viscosity mineral oil to achieve its balance of flow and film formation. Equivalents should offer a base oil viscosity within a comparable range to ensure similar hydrodynamic lubrication properties. The additive package is another critical differentiator. Look for greases that contain robust extreme pressure (EP) and anti-wear (AW) additives, as these are fundamental to Mobilux EP2's ability to protect components under high stress. Rust and corrosion inhibitors are also vital for environmental protection, and their presence and effectiveness should be considered. Ensuring the equivalent has a similar additive chemistry or a demonstrably superior alternative is key.

Operating Temperature Range and Water Washout Resistance

The ability of a grease to perform reliably across a spectrum of temperatures is a defining characteristic. Mobilux EP2 is known for its broad operating temperature range, allowing it to function effectively in both cold and moderately hot environments. Any potential equivalent must offer a similar or wider temperature range to avoid premature degradation or loss of lubricating properties. Water washout resistance is a significant benefit of Mobilux EP2, making it suitable for applications where moisture contamination is a concern. When evaluating alternatives, investigate their water washout and water spray-off test results to confirm they can maintain their integrity and lubricating film under such conditions. A grease that readily washes away will compromise protection and lead to equipment failure.

Potential Mobilux EP2 Equivalent Greases

Identifying a direct one-to-one "Mobilux EP2 equivalent" can be challenging due to proprietary formulations and specific brand nuances. However, several reputable manufacturers offer greases that are technically comparable and can serve as excellent alternatives. These products generally share the key characteristics of Mobilux EP2, including a lithium complex thickener, similar base oil viscosity, and robust EP/AW additive packages. When selecting from these options, always refer to the manufacturer's technical data sheets (TDS) and consult with their technical support teams to confirm suitability for your specific application. This due diligence will ensure you choose a product that provides reliable performance and protects your valuable assets.

Manufacturer A's Premium EP Grease

Manufacturer A offers a premium EP grease that utilizes a lithium complex thickener, aligning with the technology found in Mobilux EP2. This grease is engineered for heavy-duty industrial applications, providing excellent load-carrying capacity and wear protection. It features a meticulously balanced additive package designed to withstand extreme pressures and shock loads. Its formulation also includes advanced rust and corrosion inhibitors, ensuring protection even in challenging environments. The base oil viscosity is carefully selected to offer good film strength and thermal stability, making it suitable for a wide range of operating temperatures. This product is often cited as a strong contender for users seeking a direct alternative to Mobilux EP2, offering comparable performance and longevity.

Manufacturer B's Industrial Lithium Complex Grease

Another viable option comes from Manufacturer B, whose industrial lithium complex grease is designed to meet the demanding requirements of modern machinery. This grease also employs a lithium complex soap for superior mechanical stability and resistance to water washout. It is formulated with high-quality base oils and incorporates an aggressive EP and anti-wear additive system to guard against friction and wear under severe operating conditions. The grease exhibits good shear stability and remains effective over an extended service life, reducing the need for frequent re-lubrication. Its broad temperature range makes it adaptable to various industrial settings, and its ability to prevent rust and corrosion further enhances its appeal as a Mobilux EP2 substitute.

Manufacturer C's High-Performance Multipurpose Grease

Manufacturer C presents a high-performance multipurpose grease that can also serve as a functional equivalent to Mobilux EP2. This grease typically features a lithium complex thickener and is fortified with specialized EP additives that provide exceptional protection against scuffing and seizure. It is designed for applications involving high loads, high speeds, and elevated temperatures. The grease's resistance to water contamination and its excellent mechanical stability contribute to its reliability in continuous operation. Its formulation aims to offer long-lasting lubrication, reducing maintenance downtime and extending the operational life of critical equipment. When considering this option, verify its specific NLGI grade and base oil viscosity against your requirements.

Key Considerations for Transitioning to an

Equivalent

Transitioning from Mobilux EP2 to an equivalent grease requires careful planning and execution to avoid potential complications. While seeking alternatives can offer benefits, it's crucial to approach the change systematically. Thoroughly understanding the performance metrics of both your current lubricant and the potential replacement is the first step. Compatibility with existing lubrication systems, seals, and materials used in your machinery must be assessed. Furthermore, proper cleaning and purging of old grease from equipment are essential before introducing a new product to prevent performance degradation or incompatibility issues. Consulting with lubricant manufacturers and experienced maintenance professionals can provide invaluable guidance throughout this process.

Compatibility with Existing Systems and Seals

One of the most critical aspects when selecting a Mobilux EP2 equivalent is ensuring its compatibility with your existing machinery and its components. This includes verifying that the new grease will not negatively react with the elastomers used in seals, gaskets, and O-rings. Certain additives or base oils in different greases can cause swelling, hardening, or degradation of these materials, leading to leaks and premature failure. Always consult the technical data sheets of potential equivalent greases and, if possible, conduct compatibility tests. Your equipment manufacturer may also provide recommendations on compatible lubricant types.

Purging and Re-lubrication Procedures

When switching from Mobilux EP2 to a different grease, a thorough purging procedure is often necessary to remove residual old grease. This is especially important if the new grease has a significantly different thickener or additive package. Inadequate purging can lead to lubrication inefficiencies, contamination, or even premature equipment wear due to incompatibility. Develop a detailed re-lubrication schedule for the new grease, taking into account its specific properties and the operating conditions of your equipment. Over-lubrication or under-lubrication can both be detrimental, so adherence to recommended re-greasing intervals and quantities is vital.

Frequently Asked Questions

What is Mobilux EP 2 commonly used for?

Mobilux EP 2 is a versatile, high-performance grease widely used in industrial applications such as bearings, chassis lubrication, and general-purpose lubrication in environments with moderate to heavy loads and moderate

temperatures.

What are the key characteristics of Mobilux EP 2 that make it a popular choice?

Its key characteristics include excellent extreme pressure (EP) properties, good water resistance, good rust and corrosion protection, good mechanical stability, and a wide operating temperature range. This makes it suitable for demanding applications.

What are some common equivalents or alternatives to Mobilux EP 2?

Common equivalents often include other lithium complex greases with similar EP additives. Brands like Shell (e.g., Gadus S2 V220), ExxonMobil (other Mobilgrease formulations), Castrol, and many other major lubricant manufacturers offer products with comparable performance.

How do I find a direct equivalent to Mobilux EP 2?

To find a direct equivalent, look for lithium complex greases that specify 'EP' or 'Extreme Pressure' in their name or specifications. Compare the NLGI consistency grade (Mobilux EP 2 is typically NLGI 2) and the operating temperature range with the product you're considering. Consulting the manufacturer's product data sheets (PDS) is crucial.

What does 'EP' stand for in Mobilux EP 2 and why is it important?

'EP' stands for Extreme Pressure. EP additives are crucial in lubricants to protect surfaces from welding and scoring under high load conditions where the lubricant film might be squeezed out. This prevents premature wear and component failure.

Is NLGI grade 2 important when looking for a Mobilux EP 2 equivalent?

Yes, NLGI grade is very important. Mobilux EP 2 is typically an NLGI 2 grease, which indicates its consistency (stiffness). Using an equivalent with the same NLGI grade ensures it will perform similarly in terms of application and film strength within the equipment.

Can I use Mobilux EP 2 in high-temperature applications?

Mobilux EP 2 has a good operating temperature range, typically up to around 135°C (275°F) or higher depending on the specific formulation and operating

conditions. However, for sustained very high-temperature applications, specialized high-temperature greases (e.g., synthetic or polyurea based) might be a better choice.

What are the potential drawbacks of using an inferior equivalent to Mobilux EP 2?

Using an inferior equivalent can lead to premature wear, component damage, increased downtime, and a reduced service life for lubricated parts, especially in demanding applications where the EP properties are critical.

Where can I find reliable information to compare Mobilux EP 2 with other greases?

The best resources are the official product data sheets (PDS) or technical data sheets (TDS) provided by the lubricant manufacturers. These documents detail the properties, performance characteristics, and recommended applications of their greases, allowing for direct comparison.

Are there any specific industries or equipment types that heavily rely on Mobilux EP 2 or its equivalents?

Yes, industries like mining, heavy manufacturing, construction, agriculture, and automotive (for chassis and some heavy-duty components) frequently use greases like Mobilux EP 2 due to the high loads and harsh conditions they often encounter.

Additional Resources

Here are 9 book titles related to Mobilux EP2 equivalent lubricants, along with short descriptions:

1. *Industrial Lubricants and Greases: A Comprehensive Guide*
This foundational text delves into the science and application of various industrial lubricants, including heavy-duty greases. It explores the chemical formulations, performance characteristics, and selection criteria for greases used in demanding environments, making it highly relevant to understanding Mobilux EP2 equivalents. The book covers topics like extreme pressure additives, base oils, and thickeners, essential for comprehending grease behavior.

2. *Machinery Lubrication and Maintenance: Best Practices*
Focusing on the practical aspects of maintaining industrial machinery, this book emphasizes the critical role of proper lubrication. It details how to select the right lubricant for specific applications, including high-pressure and high-temperature scenarios where EP greases like Mobilux EP2 are vital.

Readers will learn about lubrication schedules, troubleshooting common lubrication issues, and extending equipment life through effective grease management.

3. *Extreme Pressure Lubrication: Understanding the Principles*
This specialized volume concentrates on the unique challenges of lubrication under extreme pressure conditions. It provides an in-depth analysis of the additives and base stocks that enable greases to withstand heavy loads and prevent component wear. The book is an excellent resource for understanding the specific properties that make a grease an effective EP lubricant, akin to Mobilux EP2.

4. *Tribology: The Science of Friction, Lubrication, and Wear*
Tribology, the study of friction, wear, and lubrication, is central to understanding lubricants like Mobilux EP2. This book offers a broad overview of the field, explaining how lubricants reduce friction and wear in mechanical systems. It covers the fundamental principles of surface interactions, lubricant film formation, and the impact of lubricant properties on the lifespan of machinery components.

5. *Petroleum-Based Lubricants: Chemistry and Technology*
This title explores the chemistry behind petroleum-based lubricants, including the complex formulations of greases. It breaks down the components of greases, such as mineral oils and thickeners, and discusses how they contribute to performance characteristics like shear stability and water resistance. Understanding these chemical building blocks is crucial for appreciating why certain greases, like Mobilux EP2, are effective in specific applications.

6. *The Engineer's Handbook of Lubricants and Fluids*
A practical reference for engineers, this handbook offers essential information on a wide range of lubricants and fluids used in industry. It provides guidelines for selecting lubricants based on operating conditions, equipment type, and desired performance outcomes, making it a valuable resource for identifying alternatives to specific greases. The handbook often includes tables and charts for quick reference and selection.

7. *Grease Manufacturing: Processes and Quality Control*
For those interested in the production side, this book details the manufacturing processes involved in creating high-performance greases. It discusses the precise blending of base oils and thickeners, as well as the incorporation of additives, to achieve specific performance profiles like those found in Mobilux EP2. The importance of rigorous quality control to ensure consistent product performance is also highlighted.

8. *Industrial Maintenance: Lubrication Strategies for Longevity*
This book focuses on the strategic application of lubrication within industrial maintenance programs. It outlines how to develop comprehensive lubrication plans that minimize downtime and maximize equipment life, emphasizing the selection of appropriate greases for various applications, including those requiring extreme pressure resistance. The role of advanced

greases in protecting equipment under harsh conditions is a key theme.

9. *Advanced Lubrication Technologies for Heavy Industry*
This title delves into the cutting-edge advancements in lubrication technology, specifically tailored for heavy industrial sectors. It examines the development of specialized greases that offer superior protection in challenging environments, such as those involving heavy loads, shock loading, and extreme temperatures, mirroring the capabilities of Mobilux EP2. The book explores innovative additive packages and base oil technologies that enhance lubricant performance.

Mobilux Ep2 Equivalent

Mobilux EP2 Equivalent: Finding the Right Lubricant for Your Needs

Ebook Title: The Mobilux EP2 Equivalent Guide: Choosing the Best Alternative Lubricant

Ebook Outline:

Introduction: Understanding the Importance of Choosing the Right Lubricant
Chapter 1: Deep Dive into Mobilux EP2: Properties and Applications
Chapter 2: Identifying Key Characteristics for Equivalents: Viscosity Grade, EP Additives, and Performance Standards
Chapter 3: Exploring Popular Mobilux EP2 Equivalents: Brands, Specifications, and Availability
Chapter 4: Practical Considerations: Application, Compatibility, and Cost-Effectiveness
Chapter 5: Troubleshooting and Avoiding Common Mistakes
Conclusion: Making Informed Decisions for Optimal Equipment Performance and Longevity

Mobilux EP2 Equivalent: A Comprehensive Guide

Introduction: Understanding the Importance of Choosing the Right Lubricant

Choosing the right lubricant is paramount for the smooth operation, longevity, and efficiency of machinery. Using an inappropriate lubricant can lead to premature wear, costly repairs, and even

catastrophic equipment failure. This is especially true in high-stress applications where the lubricant plays a critical role in preventing metal-to-metal contact and reducing friction. Mobilux EP2, a popular extreme pressure (EP) grease, is frequently specified for demanding industrial applications. However, understanding Mobilux EP2 equivalents and selecting the right alternative is crucial for maintaining optimal performance and avoiding unnecessary downtime. This guide explores the characteristics of Mobilux EP2, the criteria for selecting an equivalent, and provides practical advice on making informed decisions.

Chapter 1: Deep Dive into Mobilux EP2: Properties and Applications

Mobilux EP2 is a high-performance EP grease designed for a wide range of applications, particularly those involving heavy loads and shock loading. Its formulation includes additives that enhance extreme pressure properties, preventing metal-to-metal contact and reducing wear under demanding conditions. Key properties of Mobilux EP2 include:

High Viscosity Index: Maintains its viscosity over a wide temperature range, ensuring consistent lubrication performance even under fluctuating operating temperatures.
Excellent Extreme Pressure (EP) Properties: Provides superior protection against wear and scuffing in applications with high pressure and shock loads.
Good Water Resistance: Offers protection against the detrimental effects of moisture, extending the life of the lubricant and preventing corrosion.
Good Oxidation Stability: Resists breakdown and degradation, maintaining its lubricating properties over extended periods.
Wide Range of Applications: Mobilux EP2 is used in various industrial settings including:
Plain and Roller Bearings: In applications involving heavy loads and shock loads, such as in conveyors, gearboxes, and other rotating machinery.
Sliding Surfaces: Provides lubrication and protection for sliding surfaces in machinery operating under heavy loads.
Open Gears: Can be used to lubricate open gears, although specialized open gear lubricants might be preferred in some high-demanding scenarios.
Other Industrial Equipment: Suitable for various other applications where a high-performance EP grease is required.

Understanding these properties is crucial when seeking a Mobilux EP2 equivalent. An equivalent should possess similar characteristics to ensure comparable performance and protection.

Chapter 2: Identifying Key Characteristics for Equivalents: Viscosity Grade, EP Additives, and Performance Standards

Selecting a Mobilux EP2 equivalent requires careful consideration of several key factors to ensure compatibility and performance. These include:

Viscosity Grade: The viscosity grade indicates the lubricant's thickness and flow characteristics at different temperatures. Matching the viscosity grade of Mobilux EP2 is essential for proper lubrication and wear prevention. The NLGI (National Lubricating Grease Institute) consistency grade is a critical factor to consider.
EP Additives: Extreme pressure (EP) additives are crucial for protecting against wear and scuffing under high-pressure conditions. An equivalent should contain similar or superior EP additives to provide equivalent or better protection.
Performance Standards: Lubricants often meet industry-specific performance standards, such as those from ISO, DIN, or ASTM. These standards specify performance requirements for various properties. An equivalent should meet or exceed relevant standards to guarantee comparable performance.
Base Oil: The type of base oil (mineral, synthetic, or semi-synthetic) significantly impacts the lubricant's properties. While Mobilux EP2 uses a mineral oil base, knowing the base oil of potential equivalents allows for informed comparison.
Additives Package: Beyond EP additives, other additives such as anti-oxidants, rust inhibitors, and tackifiers contribute to overall performance. Understanding the additive package in both the original and equivalent is important for optimal functionality.

Chapter 3: Exploring Popular Mobilux EP2 Equivalents: Brands, Specifications, and Availability

Numerous manufacturers produce lubricants that can serve as effective Mobilux EP2 equivalents. These alternatives often come from major lubricant brands and may offer comparable or even superior performance in specific applications. It's crucial to consult the manufacturer's data sheets and specifications to verify compatibility and performance characteristics. Researching different brands and comparing their specifications is recommended before making a choice. Availability is another critical factor to consider, especially in geographically remote locations or for specialized applications.

Chapter 4: Practical Considerations: Application, Compatibility, and Cost-Effectiveness

Beyond technical specifications, practical considerations are crucial when selecting a Mobilux EP2 equivalent. These include:

Application Method: The method of applying the grease (e.g., grease gun, brush) should be considered to ensure proper lubrication of the equipment.
Compatibility: Before switching lubricants, ensure compatibility with existing grease in the system. Mixing incompatible greases can lead to poor performance or even equipment damage.
Cost-Effectiveness: While initial costs might vary, consider the long-term cost-effectiveness of different alternatives. A slightly more expensive lubricant that extends equipment life and reduces maintenance costs can be more cost-effective in the long run.

Environmental Considerations: Some lubricants are more environmentally friendly than others. Consider the environmental impact when making a selection.

Chapter 5: Troubleshooting and Avoiding Common Mistakes

Several common mistakes can occur when selecting and using Mobilux EP2 equivalents. These include:

Ignoring Viscosity Grade: Using a lubricant with an incorrect viscosity grade can lead to inadequate lubrication, increased wear, and premature failure.
Neglecting EP Properties: Selecting a lubricant lacking sufficient EP properties can result in excessive wear under high-pressure conditions.
Ignoring Compatibility: Mixing incompatible greases can lead to problems such as thickening, separation, and decreased performance.
Improper Application: Incorrect application methods can result in insufficient lubrication and equipment damage.
Overlooking Manufacturer's Recommendations: Always refer to the equipment manufacturer's recommendations for lubricant selection and application.

Conclusion: Making Informed Decisions for Optimal Equipment Performance and Longevity

Choosing the right Mobilux EP2 equivalent requires careful consideration of various factors, from technical specifications to practical considerations. By understanding the properties of Mobilux EP2, identifying key characteristics of equivalents, and following best practices, you can make informed decisions that ensure optimal equipment performance, extended lifespan, and reduced maintenance costs. Remember that consulting the manufacturer’s specifications and conducting thorough research are essential steps in selecting the best alternative for your specific application.

FAQs

1. What are the key properties of Mobilux EP2? High viscosity index, excellent EP properties, good water resistance, and good oxidation stability.

2. What are the most important factors to consider when choosing a Mobilux EP2 equivalent? Viscosity grade, EP additives, and performance standards.

3. How can I ensure compatibility between different greases? Consult the manufacturer's data

sheets and check for compatibility statements.

4. What are the potential consequences of using the wrong lubricant? Premature wear, costly repairs, and equipment failure.

5. Where can I find Mobilux EP2 equivalents? Major lubricant suppliers and industrial supply stores.

6. Is a synthetic Mobilux EP2 equivalent always better? Not necessarily; the best choice depends on the specific application and operating conditions.

7. How often should I check and re-lubricate with my chosen equivalent? Follow the equipment manufacturer's recommendations for lubrication intervals.

8. What are the environmental implications of choosing different grease types? Some greases are more biodegradable and environmentally friendly than others.

9. Can I mix different brands of Mobilux EP2 equivalents? Generally, it's not recommended; always consult the manufacturers' compatibility guides.

Related Articles

1. NLGI Grease Consistency Grades Explained: A detailed explanation of the NLGI consistency scale and its importance in lubricant selection.

2. Understanding Extreme Pressure (EP) Additives in Lubricants: An in-depth look at the role of EP additives in preventing wear and scuffing.

3. Choosing the Right Lubricant for Industrial Gearboxes: Guidance on selecting the appropriate lubricant for different gearbox types and applications.

4. How to Properly Apply Grease to Bearings: A step-by-step guide on the correct techniques for grease application.

5. Lubricant Compatibility: A Guide to Avoiding Mixing Problems: A comprehensive guide on lubricant compatibility and the risks of mixing incompatible products.

6. The Importance of Regular Lubrication Maintenance: A discussion on the benefits of regular lubrication maintenance and how it can extend equipment life.

7. Common Lubrication Mistakes and How to Avoid Them: A list of common mistakes and how to prevent them.

8. Environmental Considerations in Lubricant Selection: A discussion of the environmental impact of lubricants and choosing eco-friendly options.

9. Cost-Effective Lubrication Strategies for Industrial Plants: Tips and strategies for reducing lubrication costs without compromising performance.

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Experimental Stress Analysis in the University. The idea grew from discussions between some of Professor Fessler's academic associates from Nottingham and elsewhere. An organising committee was set up, and it was decided to invite contributions to the conference in the form of review papers and original research papers in the field of experimental, theoretical and computational stress analysis. The size of the response, both in papers submitted and in attendance at the conference, indicates that the idea proved attractive to many of his peers, former associates and research students. A bound copy of the volume is to be presented to Professor Fessler at the conference dinner on 30 August 1990.

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mobilux ep2 equivalent: Narratives of the War on Terror Michael C. Frank, Pavan Kumar Malreddy, 2020-09-10 Challenging the predominantly Euro-American approaches to the field, this volume brings together essays on a wide array of literary, filmic and journalistic responses to the decade-long wars in Afghanistan and Iraq. Shifting the focus from so-called 9/11 literature to narratives of the war on terror, and from the transatlantic world to Iraq, Syria, Afghanistan, the Afghan-Pak border region, South Waziristan, Al-Andalus and Kenya, the book captures the multiple transnational reverberations of the discourses on terrorism, counter-terrorism and insurgency. These include, but are not restricted to, the realignment of geopolitical power relations; the formation of new terrorist networks (ISIS) and regional alliances (Iraq/Syria); the growing number of terrorist incidents in the West; the changing discourses on security and technologies of warfare; and the leveraging of fundamental constitutional principles. The essays featured in this volume draw upon, and critically engage with, the conceptual trajectories within American literary debates, postcolonial discourse and transatlantic literary criticism. Collectively, they move away from the trauma-centrism and residual US-centrism of early literary responses to 9/11 and the criticism thereon, while responding to postcolonial theory’s call for a historical foregrounding of terrorism, insurgency and armed violence in the colonial-imperial power nexus. This book was originally published as a special issue of the European Journal of English Studies.

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engaged in this field. It is a reflection of the author's more than 40 years of experience in medical and cancer research, and is written in a colloquial style to reach not only the young audience who are considering devoting their lives to biomedical research, but also to those who are already engaged in this field. The author emphasizes the unique traits and qualifications required for performing scientific research and also describes the different modalities which can be performed in our actual scientific environment. There are numerous practical advices in this book, such as guidelines on writing a grant proposal and the first peer-reviewed manuscript, the selection criteria of the training laboratory and mentors, as well as keeping records of experimental data. The author also provides his insight on the personal inner drive and motivation critical for conducting scientific research, as well as the importance of working on a problem without losing the human perspective of this specific and unique human endeavor.

mobilux ep2 equivalent: National Electrical Code National Fire Protection Association, American National Standards Institute, 2002 The No. 1 electrical reference, this book is the single most important reference in the electrical industry, outlining minimum standards for all types of electrical installations. It includes information on wiring methods and materials, wiring and protection, and equipment for general use. Tables.

mobilux ep2 equivalent: 3-D Engineering Vicki May, 2015-11-16 How did somebody come up with the idea for bridges, skyscrapers, helicopters, and nightlights? How did people figure out how to build them? In 3D Engineering: Design and Build Your Own Prototypes, young readers tackle real-life engineering problems by figuring out real-life solutions. Kids apply science and math skills to create prototypes for bridges, instruments, alarms, and more. Prototypes are preliminary models used by engineers—and kids—to evaluate ideas and to better understand how things work. Engineering design starts with an idea. How do we get to the other side of the river? How do we travel long distances in short times? Using a structured engineering design process, kids learn how to brainstorm, build a prototype, test a prototype, evaluate, and re-design. Projects include designing a cardboard chair to understand the stiffness of structural systems and designing and building a set of pan pipes to experiment with pitch and volume. Creating prototypes is a key step in the engineering design process and prototyping early in the design process generally results in better processes and products. 3D Engineering gives kids a chance to figure out many different prototypes, empowering them to discover the mechanics of the world we know.

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mobilux ep2 equivalent: *Mine Managers' Handbook* , 2012

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mobilux ep2 equivalent: Tony Northrup's DSLR Book: How to Create Stunning Digital Photography Tony Northrup, 2014-11-26 The top-rated and top-selling photography ebook since 2012 and the first ever Gold Honoree of the Benjamin Franklin Digital Award, gives you five innovations no other book offers: Free video training. 9+ HOURS of video training integrated into the book’s content (requires Internet access). Travel around the world with Tony and Chelsea as they teach you hands-on. Appendix A lists the videos so you can use the book like an inexpensive video course.Classroom-style teacher and peer help. After buying the book, you get access to the private forums on this site, as well as the private Stunning Digital Photography Readers group on Facebook where you can ask the questions and post pictures for feedback from Tony, Chelsea, and other readers. It’s like being able to raise your hand in class and ask a question! Instructions are in the introduction.Lifetime updates. This book is regularly updated with new content (including additional videos) that existing owners receive for free. Updates are added based on reader feedback and questions, as well as changing photography trends and new camera equipment. This is the last photography book you’ll ever need.Hands-on practices. Complete the practices at the end of every chapter to get the real world experience you need.500+ high resolution, original pictures. Detailed example pictures taken by the author in fifteen countries demonstrate both good and bad technique. Many pictures include links to the full-size image so you can zoom in to see every pixel. Most photography books use stock photography, which means the author didn’t even take them. If

an author can’t take his own pictures, how can he teach you? In this book, Tony Northrup (award-winning author of more than 30 how-to books and a professional portrait, wildlife, and landscape photographer) teaches the art and science of creating stunning pictures. First, beginner photographers will master: CompositionExposureShutter speedApertureDepth-of-field (blurring the background)ISONatural lightFlashTroubleshooting blurry, dark, and bad picturesPet photographyWildlife photography (mammals, birds, insects, fish, and more)Sunrises and sunsetsLandscapesCityscapesFlowersForests, waterfalls, and riversNight photographyFireworksRaw filesHDRMacro/close-up photography Advanced photographers can skip forward to learn the pro’s secrets for: Posing men and women. including corrective posing (checklists provided)Portraits (candid, casual, formal, and underwater)Remotely triggering flashesUsing bounce flash and flash modifiersUsing studio lighting on any budgetBuilding a temporary or permanent studio at homeShooting your first weddingHigh speed photographyLocation scouting/finding the best spots and timesPlanning shoots around the sun and moonStar trails (via long exposure and image stacking)Light paintingEliminating noiseFocus stacking for infinite depth-of-fieldUnderwater photographyGetting close to wildlifeUsing electronic shutter triggersPhotographing moving carsPhotographing architecture and real estate

mobilux ep2 equivalent: *Mechanical and Electrical Design of Pumping Stations* United States. Army. Corps of Engineers, 1962

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