

gia diamond essentials pdf

gia diamond essentials pdf is a highly valuable resource for anyone interested in understanding the fundamentals of diamonds, particularly in the context of grading and certification. This comprehensive guide provides essential information about diamond characteristics, grading reports, and the standards set by the Gemological Institute of America (GIA). Whether you are a jeweler, a gemstone enthusiast, or a prospective buyer, the gia diamond essentials pdf serves as an authoritative reference to help make informed decisions. This article explores the contents of the GIA Diamond Essentials PDF, its significance in the diamond industry, and how it can be utilized effectively. Additionally, it examines the key components of diamond grading, the importance of certification, and tips for interpreting GIA reports. The following sections will provide a detailed overview and practical insights related to this important document.

- Overview of the GIA Diamond Essentials PDF
- Key Components of Diamond Grading
- The Importance of GIA Certification
- How to Use the GIA Diamond Essentials PDF
- Interpreting GIA Diamond Reports
- Benefits of Understanding Diamond Essentials

Overview of the GIA Diamond Essentials PDF

The GIA Diamond Essentials PDF is a concise yet comprehensive educational document produced by the Gemological Institute of America. It aims to provide a foundational understanding of diamond grading principles, terminology, and industry standards. This resource is widely used by professionals and consumers alike to gain clarity on what determines a diamond's value and quality. The document typically covers the GIA grading system, the 4Cs (cut, color, clarity, and carat weight), and how these factors influence a diamond's appearance and price.

Purpose and Audience

The primary purpose of the gia diamond essentials pdf is to educate stakeholders in the jewelry industry, including retailers, appraisers, and buyers, about the standardized methods for evaluating diamonds. It is also

designed for consumers who want to deepen their knowledge before making a purchase. The PDF serves as an accessible introduction to complex gemological concepts, ensuring transparency and confidence in diamond transactions.

Content Highlights

Within the document, readers will find detailed explanations of diamond anatomy, the GIA grading scale, and the scientific techniques used to assess diamond quality. It also explains the significance of GIA reports and how they protect consumers from misrepresentation. Visual aids and diagrams often accompany the text to facilitate better understanding of grading criteria.

Key Components of Diamond Grading

Diamond grading is a critical aspect covered extensively in the *gia diamond essentials pdf*. The GIA grading system is recognized globally for its objectivity and accuracy. Understanding the key components helps in evaluating a diamond's overall quality and market value.

The 4Cs Explained

The 4Cs represent the cornerstone of diamond grading and are thoroughly detailed in the PDF:

- **Cut:** Refers to how well a diamond's facets interact with light, affecting brilliance and sparkle.
- **Color:** Measures the absence of color in white diamonds, graded on a scale from D (colorless) to Z (light yellow or brown).
- **Clarity:** Assesses the presence of internal inclusions or external blemishes, ranging from Flawless to Included.
- **Carat Weight:** Indicates the diamond's size and weight, influencing rarity and price.

Additional Grading Factors

Besides the 4Cs, the *gia diamond essentials pdf* explains other important elements such as fluorescence, polish, and symmetry. These factors can affect a diamond's appearance and value, providing a more comprehensive evaluation beyond the basic criteria.

The Importance of GIA Certification

One of the most significant topics addressed in the *gia diamond essentials pdf* is the role of GIA certification in the diamond market. GIA certificates, or grading reports, are widely regarded as the gold standard for diamond authenticity and quality assurance.

Trust and Transparency

GIA certification provides an unbiased, third-party verification of a diamond's characteristics. This transparency builds trust between buyers and sellers, reducing the risk of fraud or misrepresentation. The PDF explains how GIA's rigorous testing procedures ensure consistent and reliable results.

Market Value and Resale

Possessing a GIA certificate often increases a diamond's market value and facilitates resale. The document clarifies how the certification serves as a universal language in the jewelry industry, enabling accurate comparison of diamonds across different retailers and regions.

How to Use the GIA Diamond Essentials PDF

Effectively utilizing the *gia diamond essentials pdf* can enhance decision-making when purchasing or selling diamonds. The document is structured to be user-friendly and informative for both novices and experts.

Educational Tool for Buyers

Consumers can use the PDF as a primer to understand key diamond features and what to look for in a grading report. It assists buyers in identifying quality factors that correspond to their preferences and budget, empowering them to make informed purchases.

Reference Guide for Professionals

Jewelry professionals, including sales associates and appraisers, rely on the PDF to standardize their knowledge and communicate diamond quality effectively. It serves as a quick reference for explaining grading results to clients and ensuring consistent terminology.

Interpreting GIA Diamond Reports

The [gia diamond essentials pdf](#) offers guidance on how to read and interpret GIA grading reports accurately. These reports contain detailed information about a diamond's characteristics and any treatments it may have undergone.

Understanding Report Sections

A typical GIA report includes the diamond's shape and cutting style, measurements, the 4Cs grades, fluorescence, and a plotted diagram of inclusions. The PDF explains each section in detail, making it easier to comprehend the technical data presented.

Identifying Key Indicators

The document emphasizes paying attention to the cut grade and clarity characteristics, which significantly impact a diamond's visual appeal. It also highlights how to recognize any enhancements or treatments noted in the report, which could affect durability or value.

Benefits of Understanding Diamond Essentials

Acquiring knowledge from the [gia diamond essentials pdf](#) offers multiple advantages to various stakeholders in the diamond industry.

Enhanced Buyer Confidence

Buyers who understand diamond grading and certification are less likely to be misled and can select stones that best fit their criteria. This confidence leads to greater satisfaction and trust in the purchase process.

Improved Industry Standards

Widespread use of the [gia diamond essentials pdf](#) promotes uniformity in grading practices and terminology, raising the overall quality and credibility of the diamond market.

Informed Investment Decisions

Knowledge of diamond essentials helps investors and collectors assess the long-term value and authenticity of their assets, making it easier to manage and trade their collections effectively.

1. Provides a clear understanding of diamond quality and value.
2. Promotes transparency and trust in diamond transactions.
3. Supports accurate communication between professionals and consumers.
4. Helps avoid common pitfalls and misrepresentations.
5. Enhances the ability to compare diamonds objectively.

Frequently Asked Questions

What is the GIA Diamond Essentials PDF?

The GIA Diamond Essentials PDF is a comprehensive guide provided by the Gemological Institute of America (GIA) that explains key concepts related to diamonds, including their characteristics, grading, and buying tips.

Where can I download the GIA Diamond Essentials PDF?

The GIA Diamond Essentials PDF can be downloaded directly from the official GIA website or through authorized GIA educational resources.

Is the GIA Diamond Essentials PDF free to access?

Yes, the GIA Diamond Essentials PDF is typically available for free as part of GIA's educational outreach to help consumers understand diamond quality.

What topics are covered in the GIA Diamond Essentials PDF?

The PDF covers topics such as the 4Cs of diamonds (Cut, Color, Clarity, Carat Weight), diamond grading reports, diamond shapes, and tips for purchasing diamonds.

How can the GIA Diamond Essentials PDF help diamond buyers?

It educates buyers on how to evaluate diamond quality, understand grading reports, and make informed decisions when purchasing diamonds.

Is the GIA Diamond Essentials PDF suitable for

beginners?

Yes, the PDF is designed to be accessible and informative for beginners looking to learn about diamonds and the diamond industry.

Can jewelers use the GIA Diamond Essentials PDF for training?

Absolutely, many jewelers use the PDF as a foundational training resource to better understand diamond grading and to educate their customers.

Does the GIA Diamond Essentials PDF include images and diagrams?

Yes, the PDF includes detailed images and diagrams to visually explain diamond features and grading criteria.

Additional Resources

1. *The Diamond Dictionary: A Comprehensive Guide to GIA Diamond Essentials*

This book serves as an essential reference for anyone interested in the fundamentals of diamonds as presented by the Gemological Institute of America (GIA). It covers key topics such as the 4Cs (cut, color, clarity, and carat weight), diamond grading reports, and identification techniques. Ideal for gemologists, jewelers, and diamond enthusiasts, it provides clear explanations supported by detailed images and charts.

2. *GIA Diamond Grading Essentials: Understanding the 4Cs*

Focused specifically on the GIA's grading system, this book breaks down the critical factors that determine a diamond's value and quality. Readers will learn how to interpret GIA grading reports and understand the science behind diamond grading. The book also includes practical tips on selecting high-quality diamonds for investment or personal use.

3. *Mastering Diamond Cut: Insights from GIA Essentials*

This title delves deeply into one of the most important aspects of diamond beauty and value—the cut. Drawing from GIA's research and grading criteria, the book explains how cut quality affects a diamond's brilliance and fire. It includes step-by-step guides and visual aids to help readers evaluate and appreciate superior diamond cuts.

4. *The GIA Diamond Color and Clarity Handbook*

Dedicated to the often subtle but crucial attributes of color and clarity, this book explores how GIA defines and grades these characteristics. It illustrates the variations in diamond color grades and the types of inclusions and blemishes that impact clarity. With ample photographs and examples, readers gain a thorough understanding of these essential quality factors.

5. *Diamond Carat Weight and Size: A GIA Perspective*

This book explains the relationship between a diamond's carat weight, physical size, and overall value using GIA standards. It discusses how carat weight influences pricing and how to balance size with other quality factors for optimal selection. The guide is valuable for buyers and professionals aiming to make informed decisions.

6. *Diamond Identification and Authentication: GIA Methods and Tools*

A practical guide for gemologists and jewelers, this book covers the scientific methods used by GIA to identify natural diamonds from synthetics and simulants. It reviews key equipment and techniques such as microscopy, spectroscopy, and fluorescence testing. The book equips readers with the knowledge to authenticate diamonds confidently.

7. *Understanding GIA Diamond Reports: A Buyer's Guide*

This accessible guide helps consumers and industry professionals decode the detailed information found in GIA diamond grading reports. It explains the terminology, symbols, and data presentation used by GIA, enabling readers to make well-informed purchases. The book also offers advice on spotting discrepancies and understanding grading nuances.

8. *Handbook of Diamond Grading: GIA Essentials for Gemologists*

Designed for aspiring and practicing gemologists, this comprehensive handbook covers the full spectrum of GIA diamond grading techniques. It includes practical exercises, case studies, and grading charts to enhance hands-on learning. The book serves as both a study resource and a professional reference.

9. *Diamond Cutting and Polishing: Principles from GIA Essentials*

This book explores the craftsmanship behind diamond cutting and polishing, emphasizing the standards established by GIA. It details the processes that affect a diamond's final appearance and value, including shaping, faceting, and finishing techniques. Readers gain insight into how expert cutting maximizes a diamond's optical performance.

[Gia Diamond Essentials Pdf](#)

Gia Diamond Essentials PDF: Your Ultimate Guide to Navigating the World of Diamonds

Are you overwhelmed by the complexities of diamond grading and buying? Do you fear being ripped off when purchasing a diamond? Are you struggling to decipher the jargon and understand the true value of a stone? You're not alone. Millions find the diamond-buying process confusing and intimidating. But with the right knowledge, you can confidently navigate this world and secure a stunning diamond that matches your budget and expectations.

This comprehensive guide, "Gia Diamond Essentials: A Buyer's Guide to Understanding Diamond Grading Reports," equips you with the essential knowledge to make informed decisions. Forget the marketing hype and get straight to the facts.

Contents:

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Gia Diamond Essentials: A Buyer's Guide to Understanding Diamond Grading Reports

Introduction: Understanding the Importance of GIA Certification

The Gemological Institute of America (GIA) is the world's foremost authority on diamond grading. A GIA certificate provides an objective, third-party assessment of a diamond's quality. This is crucial because, unlike other gemstones, diamonds lack readily apparent, easily quantifiable characteristics that determine its value. A GIA report provides a standardized evaluation, ensuring transparency and reducing the risk of misrepresentation or overpayment. Without a GIA certificate (or a certificate from a similarly reputable lab), you're essentially buying a diamond based on faith and the seller's word alone – a risky proposition. Understanding a GIA report is therefore paramount to a successful diamond purchase. This ebook provides a clear and simple method for navigating the information, ensuring you can confidently evaluate a diamond's true value.

Chapter 1: Deciphering the GIA Grading Report: A Step-by-Step Guide

A GIA report, at first glance, may appear overwhelming with its technical jargon and numerical data. However, breaking it down step by step reveals a wealth of information. The report typically includes a diamond's measurements (length, width, depth, and table percentage), weight in carats, cut grade, clarity grade, color grade, and other characteristics. Let's dissect each section:

Diamond Identification Number: This unique identifier links the report to the specific diamond.

Shape and Cutting Style: This identifies the diamond's shape (e.g., round brilliant, princess, emerald) and the type of cut.

Measurements: Precise dimensions of the diamond, crucial for assessing proportions and potential for brilliance.

Carat Weight: The diamond's weight in carats, directly influencing its price.

Color Grade: A letter grade indicating the diamond's colorlessness, ranging from D (colorless) to Z (light yellow or brown).

Clarity Grade: A letter grade indicating the diamond's internal and external imperfections (inclusions and blemishes).

Cut Grade: An assessment of how well the diamond's facets interact with light to produce brilliance, fire, and scintillation. This is arguably the most important aspect of a diamond's value and visual appeal.

Polish and Symmetry: Grades reflecting the quality of the diamond's surface finish and the precision of its facets.

Fluorescence: An indication of whether the diamond glows under ultraviolet light. Fluorescence can sometimes affect the diamond's appearance.

Plot Diagram: A detailed diagram showing the location of inclusions and blemishes within the diamond.

Understanding each of these elements is crucial to comprehending the overall quality and value of the diamond. The GIA report provides a detailed explanation of each of these grades, allowing for a thorough understanding of the diamond's characteristics.

Chapter 2: The 4Cs: Cut, Clarity, Color, and Carat Weight - Explained

The 4Cs (Cut, Clarity, Color, and Carat Weight) are the fundamental factors determining a diamond's quality and price. However, their relative importance varies. While carat weight is often the most immediately noticeable, the cut significantly impacts how brilliantly the diamond sparkles.

Cut: The cut grade is a critical assessment of how well the diamond's facets interact with light, affecting its brilliance, fire, and scintillation. An excellent cut maximizes light return, resulting in a more dazzling diamond. A poorly cut diamond will appear dull even if it has high color and clarity grades.

Clarity: Clarity refers to the presence of inclusions (internal flaws) and blemishes (external flaws). These imperfections can affect the diamond's brilliance and overall appearance. However, many inclusions are microscopic and invisible to the naked eye.

Color: The color grade assesses how colorless the diamond is. Colorless diamonds are generally more valuable. However, slight tints of yellow or brown can be acceptable depending on personal preference and budget.

Carat Weight: Carat weight refers to the diamond's mass. Larger diamonds generally command higher prices, but the price per carat can vary greatly depending on the other 3Cs.

This chapter will delve deeper into each of the 4Cs, explaining their individual importance, how they are graded, and how their interplay affects a diamond's overall value.

Chapter 3: Beyond the 4Cs: Fluorescence, Polish, Symmetry, and Cut Grade

While the 4Cs form the foundation of diamond evaluation, other factors also contribute to a diamond's overall appearance and value.

Fluorescence: Fluorescence is the phenomenon where a diamond emits visible light when exposed to ultraviolet (UV) radiation. Some fluorescence can enhance brilliance, while others can cause a milky or hazy appearance.

Polish: Polish refers to the smoothness of the diamond's surface. Excellent polish results in a sparkling, reflective surface.

Symmetry: Symmetry refers to how well-aligned the diamond's facets are. High symmetry contributes to better light performance and a more pleasing visual appeal.

Cut Grade Details: The GIA report provides detailed information on the diamond's cut proportions and angles, revealing critical aspects that affect light return. Understanding these details empowers you to make an informed decision beyond the simple "Excellent," "Good," etc., ratings.

Chapter 4: Identifying Potential Issues and Red Flags on a GIA Report

While a GIA certificate provides assurance, it's vital to know how to spot potential inconsistencies or red flags that may indicate problems. This chapter will cover:

Discrepancies in measurements: Inconsistencies between listed measurements and those measured independently.

Unusual clarity or color grades: Grades that seem disproportionate to other characteristics.

Missing information or unclear descriptions: Incomplete or ambiguous entries on the certificate.

Tampered reports: Signs of alterations or forgeries on the certificate.

Understanding potential treatment: Identifying diamonds that have undergone treatments to enhance their appearance.

Chapter 5: Using the GIA Report to Negotiate Price and Value

Armed with your knowledge of the GIA report, you are well-equipped to negotiate a fair price for your diamond. This chapter will discuss:

Comparing prices from different vendors: Using the report as a basis for comparison shopping.

Understanding market value: Determining a reasonable price range based on the diamond's characteristics.

Negotiating strategies: Effective techniques for negotiating a better price based on your report

findings.

Identifying over-priced diamonds: Spotting diamonds that are overpriced relative to their GIA-graded quality.

Chapter 6: Protecting Yourself from Fraudulent Reports

Unfortunately, fraudulent GIA reports exist. This chapter will help you to identify and avoid them:

Verification methods: Methods for verifying the authenticity of a GIA report.

Identifying common forgeries: Spotting telltale signs of fake or altered reports.

Choosing reputable vendors: Selecting vendors with a proven track record of ethical practices.

Conclusion: Making Confident Diamond Purchases

By understanding the contents of a GIA report, you can transform from a hesitant diamond buyer into a confident, informed consumer. This ebook equips you with the essential tools to navigate the complexities of diamond grading, ensuring you make a purchase that aligns with your budget and expectations. Remember, knowledge is power, and with this knowledge, you're empowered to make the right diamond purchase.

FAQs

1. What is a GIA diamond certificate? A GIA diamond certificate is an independent grading report from the Gemological Institute of America, providing an objective evaluation of a diamond's quality.
2. Are all GIA reports accurate? While GIA is the most trusted authority, human error can occur. Carefully scrutinizing the report is crucial.
3. Can I trust online diamond sellers? Online sellers can be reputable, but always demand a GIA certificate and verify its authenticity.
4. How important is the cut grade? The cut grade is incredibly important. It significantly impacts the diamond's brilliance and overall appearance.
5. What's the difference between inclusions and blemishes? Inclusions are internal flaws, while blemishes are external flaws.
6. What is fluorescence, and does it matter? Fluorescence is a glow under UV light; its impact on appearance varies.

7. How can I verify a GIA report? Use the GIA's online verification tool or contact GIA directly.
8. How much should I expect to pay for a diamond? The price depends on the 4Cs and other factors. Research and compare prices.
9. What if I find something wrong with the GIA report? Contact the seller immediately and consider independent appraisal.

Related Articles:

1. GIA Diamond Grading Scale Explained: A detailed breakdown of the grading scales for color, clarity, and cut.
2. How to Spot a Fake GIA Report: Tips and tricks for identifying fraudulent certificates.
3. Understanding Diamond Fluorescence: Is it Good or Bad?: An in-depth look at fluorescence and its impact on diamonds.
4. The Importance of Diamond Cut: Why cut is the most crucial factor in a diamond's beauty.
5. Choosing the Right Diamond Shape for Your Engagement Ring: A guide to different diamond shapes and their characteristics.
6. Negotiating Diamond Prices Like a Pro: Strategies for getting the best possible deal.
7. Diamond Clarity Grades: A Comprehensive Guide: A detailed explanation of the different clarity grades.
8. Diamond Color Grades: Everything You Need to Know: Understanding the nuances of diamond color.
9. Top Tips for Buying a Diamond Online: Safe and effective strategies for purchasing diamonds online.

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gia diamond essentials pdf: **The Book of R** Tilman M. Davies, 2016-07-16 The Book of R is a comprehensive, beginner-friendly guide to R, the world's most popular programming language for statistical analysis. Even if you have no programming experience and little more than a grounding in the basics of mathematics, you'll find everything you need to begin using R effectively for statistical analysis. You'll start with the basics, like how to handle data and write simple programs, before moving on to more advanced topics, like producing statistical summaries of your data and performing statistical tests and modeling. You'll even learn how to create impressive data visualizations with R's basic graphics tools and contributed packages, like ggplot2 and ggvis, as well as interactive 3D visualizations using the rgl package. Dozens of hands-on exercises (with downloadable solutions) take you from theory to practice, as you learn: -The fundamentals of programming in R, including how to write data frames, create functions, and use variables, statements, and loops -Statistical concepts like exploratory data analysis, probabilities, hypothesis tests, and regression modeling, and how to execute them in R -How to access R's thousands of functions, libraries, and data sets -How to draw valid and useful conclusions from your data -How to create publication-quality graphics of your results Combining detailed explanations with real-world examples and exercises, this book will provide you with a solid understanding of both statistics and the depth of R's functionality. Make The Book of R your doorway into the growing world of data analysis.

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gia diamond essentials pdf: Physical Examination of the Shoulder Ryan J. Warth, Peter J. Millett, 2015-06-24 This text presents a comprehensive and concise evidence-based and differential-based approach to physical examination of the shoulder in a manner that promotes its successful application in clinical practice. Additionally, this book provides an integrated approach to the diagnosis of numerous shoulder pathologies by combining discussions of pathoanatomy and the interpretation of physical examination techniques and was written for any health care professional or student who may be required to evaluate patients who present with shoulder pain. This information will allow the clinician to make informed decisions regarding further testing procedures, imaging and potential therapeutic options. Physical Examination of the Shoulder will serve as an invaluable resource for practicing orthopedic surgeons, sports medicine specialists, physical therapists, residents in training and medical students interested in the field of clinical orthopedics.

gia diamond essentials pdf: Essentials of Mini – One Anastomosis Gastric Bypass Mervyn Deitel, 2018-05-15 This book indicates the technique and fine points of the mini- and one-anastomosis gastric bypass, and looks at the means of revising other operations related to it. The chapters discuss postoperative complications, treatment and requirements, postoperative diet and medications, the remarkable effects on the co-morbidities of morbid obesity, and the durability of the weight loss, as well as the improvement in the quality of life. Essentials of Mini – One Anastomosis Gastric Bypass aims to help surgeons manage the difficulties encountered within this procedure and to help create improved practice.

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fascinated humans in ways that few other items could. While objects of desire are found throughout the natural world, physical beauty is too often ephemeral. From the allure of a man, woman, flower or butterfly, through the fleeting moments of a sunset, there is little that lasts and practically nothing that can be passed down to our descendants. The exception is precious stones. Not only are they the most durable creations of mother nature, but their visual splendor is truly eternal. In this companion to his 2013 book, *Ruby & Sapphire--A Collector's Guide*, Richard Hughes examines these gems from the gemological standpoint, delving into these gems not just from the aesthetic, but also from the scientific point of view. The product of nearly 40 years of firsthand experience, it covers every aspect of the subject from A-Z. History, sources, prices, quality analysis, synthetics and treatments, everything is here. *Ruby & Sapphire--A Gemologist's Guide* represents the most comprehensive book ever written on a single precious stone. With over 1000 photos, maps and illustrations and 3500 references, it is nothing less than a tour-de-force of gemological scholarship.

gia diamond essentials pdf: *A Dictionary of Confusable Phrases* Yuri Dolgoplov, 2016-02-01 Covering over 10,000 idioms and collocations characterized by similarity in their wording or metaphorical idea which do not show corresponding similarity in their meanings, this dictionary presents a unique cross-section of the English language. Though it is designed specifically to assist readers in avoiding the use of inappropriate or erroneous phrases, the book can also be used as a regular phraseological dictionary providing definitions to individual idioms, cliches, and set expressions. Most phrases included in the dictionary are in active current use, making information about their meanings and usage essential to language learners at all levels of proficiency.

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African way of being. He looks also at Africa in the wake of two epoch-making changes: the arrival of AIDS and the definitive departure of the white man. Kapuscinski's rare humanity invests his subjects with a grandeur and a dignity unmatched by any other writer on the Third World, and his unique ability to discern the universal in the particular has never been more powerfully displayed than in this work.

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gemstones, invites the reader on a journey into the fascinating world of diamonds. This lavishly illustrated guide -- which features hundreds of photos, maps and diagrams -- covers everything from mining, cutting and evaluating diamonds to the romantic histories of some of the world's most valuable stones. Diamonds includes chapters on: What a diamond is -- its significance from antiquity to the present day and what it represents from different perspectives The process and history of mining diamonds -- the locations (both modern and historical) as well as the techniques used to mine diamonds The evolution of diamond cutting -- how a diamond is processed and what are the key cuts and shapes to know Diamond jewelry through the ages -- how diamonds have been used in jewelry from pre-Georgian times to today Evaluating and pricing diamonds -- how diamonds are priced based on their many value factors, such as color, carat weight, cut, clarity, and so on Man-made diamonds The remarkable benefits of diamonds. As beautiful as they are precious and as useful as they are decorative, diamonds continue to fascinate and allure. Diamonds will be a welcome guide for anyone who has felt the romance and power of these fascinating gems. It will also be a useful resource for professionals in the jewelry trade.

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