

autogauge cnc 1000

autogauge cnc 1000 represents a significant advancement in automotive gauge technology, offering precision, reliability, and versatility for vehicle enthusiasts and professionals alike. This cutting-edge product is engineered to deliver accurate readings of critical engine parameters, aiding in performance optimization and vehicle monitoring. The autogauge cnc 1000 integrates advanced CNC machining techniques for superior build quality and durability. This article explores the features, benefits, installation process, and comparative advantages of the autogauge cnc 1000, providing a comprehensive guide for those interested in upgrading their automotive instrumentation. Additionally, the discussion includes maintenance tips and troubleshooting advice to ensure long-term functionality. The following table of contents outlines the key areas covered in this detailed overview.

- Overview of the Autogauge CNC 1000
- Key Features and Specifications
- Installation and Compatibility
- Advantages of Using Autogauge CNC 1000
- Maintenance and Troubleshooting

Overview of the Autogauge CNC 1000

The autogauge cnc 1000 is a precision-engineered automotive gauge designed to provide accurate measurement of various engine parameters such as boost pressure, oil temperature, water temperature, and voltage. Manufactured using advanced computer numerical control (CNC) machining techniques, this gauge ensures high build quality and durability. It caters to both professional mechanics and automotive hobbyists who demand reliable instrumentation for performance monitoring and diagnostics. The device's robust construction and clear display make it a preferred choice in the aftermarket gauge market.

Design and Build Quality

The autogauge cnc 1000 features a rugged design with a CNC-machined aluminum housing that enhances its strength and resistance to wear and tear. The gauge face is protected by a scratch-resistant lens, ensuring readability under various lighting conditions. The precision machining process guarantees tight tolerances and consistent quality across all units, contributing to its reputation for reliability.

Purpose and Application

This gauge is primarily used in high-performance vehicles, racing cars, and daily drivers where monitoring engine parameters is critical. It helps prevent engine damage by alerting users to abnormal readings, enabling timely

maintenance or adjustments. The autogauge cnc 1000 is compatible with a wide range of vehicle types and can be used for both gasoline and diesel engines.

Key Features and Specifications

The autogauge cnc 1000 boasts a range of features designed to maximize functionality and user convenience. Its specifications reflect the high standards expected in professional-grade automotive instrumentation.

Technical Specifications

- Display Type: Analog with LED backlight
- Measurement Range: Varies by model (e.g., 0-30 PSI for boost, 0-300°F for temperature)
- Accuracy: $\pm 1\%$ full scale
- Power Supply: 12V DC
- Operating Temperature: -40°F to 185°F (-40°C to 85°C)
- Dimensions: Standard 52mm (2-inch) gauge size
- Material: CNC-machined aluminum housing

Advanced Features

The autogauge cnc 1000 includes several advanced features such as a clear, easy-to-read dial with calibrated markings, a durable needle mechanism for precise readings, and a built-in LED backlight that enhances visibility during night driving. Additionally, some models offer warning lights or alarms to indicate critical thresholds, improving safety and awareness.

Installation and Compatibility

Installing the autogauge cnc 1000 requires careful attention to ensure accurate readings and safe operation. The gauge is designed for straightforward integration with most vehicle electrical systems and sensors.

Installation Process

The installation involves mounting the gauge securely within the vehicle's dashboard or an aftermarket gauge pod. Wiring connections must be made to the appropriate sensors, power source, and ground. Calibration may be necessary to match the specific vehicle parameters. It is recommended to follow the manufacturer's instructions precisely or consult a professional technician for installation.

Vehicle Compatibility

The autogauge cnc 1000 is compatible with a wide range of vehicles, including cars, trucks, motorcycles, and performance vehicles. Its universal design allows it to interface with standard automotive sensors, making it a versatile option for various applications. Compatibility with both gasoline and diesel engines enhances its usability across different markets.

Advantages of Using Autogauge CNC 1000

Choosing the autogauge cnc 1000 provides several benefits that enhance vehicle monitoring and performance management. These advantages contribute to its popularity among automotive professionals and enthusiasts.

Accuracy and Reliability

One of the primary advantages is the high accuracy of the readings provided by the autogauge cnc 1000. The precise CNC machining process ensures consistent performance and long-term reliability, reducing the likelihood of erroneous data that could lead to engine damage.

Durability and Build Quality

Constructed from CNC-machined aluminum, the gauge offers superior durability compared to plastic or lower-quality metal gauges. This robust build withstands harsh operating conditions, including vibration, temperature extremes, and exposure to automotive fluids.

User-Friendly Interface

The gauge's clear analog display and LED backlighting provide excellent readability at a glance, minimizing driver distraction. Warning indicators further enhance safety by alerting users promptly to abnormal conditions.

Cost-Effectiveness

Despite its advanced features and professional-grade construction, the autogauge cnc 1000 remains competitively priced, offering excellent value for money compared to other high-end automotive gauges.

Maintenance and Troubleshooting

Proper maintenance of the autogauge cnc 1000 ensures its longevity and reliable performance. Regular checks and simple troubleshooting can prevent common issues and prolong the service life of the gauge.

Routine Maintenance Tips

- Regularly inspect wiring connections for corrosion or looseness.
- Clean the gauge face with a soft, non-abrasive cloth to maintain visibility.
- Check sensor functionality and replace faulty sensors promptly.
- Ensure the gauge mounting remains secure to prevent vibration damage.

Common Issues and Solutions

Some common problems include inaccurate readings, needle sticking, or backlight failure. These can often be resolved by checking sensor connections, recalibrating the gauge, or replacing the LED components if necessary. Consulting the user manual or a professional technician is advised for complex issues.

Frequently Asked Questions

What is the Autogauge CNC 1000 used for?

The Autogauge CNC 1000 is a digital thickness gauge commonly used for measuring the thickness of materials such as metal, plastic, and coatings with high precision.

What are the key features of the Autogauge CNC 1000?

Key features include a high-precision digital display, easy-to-use interface, durable construction, and compatibility with various measurement units. It often supports data output for analysis.

How accurate is the Autogauge CNC 1000?

The Autogauge CNC 1000 typically offers accuracy within ± 0.001 mm, making it suitable for precise industrial and laboratory measurements.

Can the Autogauge CNC 1000 be connected to a computer?

Yes, many models of the Autogauge CNC 1000 support data transfer via USB or serial connections, allowing users to export measurement data to a computer for further analysis.

What materials can the Autogauge CNC 1000 measure?

It can measure the thickness of various materials including metals, plastics, ceramics, and coatings, making it versatile for different industries.

Is the Autogauge CNC 1000 suitable for quality control in manufacturing?

Absolutely, its high accuracy and data logging capabilities make the Autogauge CNC 1000 ideal for quality control processes in manufacturing environments.

Where can I purchase the Autogauge CNC 1000?

The Autogauge CNC 1000 can be purchased through authorized distributors, industrial equipment suppliers, or online marketplaces specializing in measurement tools and equipment.

Additional Resources

1. *Mastering Autogauge CNC 1000: A Comprehensive Guide*

This book offers an in-depth exploration of the Autogauge CNC 1000, covering its features, setup, and operation. It is designed for both beginners and experienced operators aiming to maximize the efficiency of their CNC machine. Detailed tutorials and troubleshooting tips make this guide essential for mastering the equipment.

2. *Programming Techniques for Autogauge CNC 1000*

Focused on the programming aspect, this book provides step-by-step instructions on writing and optimizing CNC programs specific to the Autogauge CNC 1000. Readers will learn about G-code, M-code, and custom macros to enhance machining precision and productivity. Practical examples and case studies are included to reinforce learning.

3. *Maintenance and Troubleshooting of Autogauge CNC 1000*

A practical manual dedicated to maintaining the Autogauge CNC 1000 in peak condition, this book covers routine maintenance schedules, common issues, and effective troubleshooting strategies. It helps operators and technicians diagnose problems quickly and implement solutions to minimize downtime.

4. *Advanced Machining Strategies with Autogauge CNC 1000*

This book explores advanced machining techniques and strategies that can be employed using the Autogauge CNC 1000. It delves into multi-axis machining, toolpath optimization, and material-specific approaches to improve overall manufacturing quality and efficiency.

5. *Autogauge CNC 1000 Safety and Best Practices*

Safety is paramount when operating CNC machines, and this book outlines the best practices for safe operation of the Autogauge CNC 1000. It includes guidelines on workplace safety, emergency procedures, and proper handling of tools and materials to protect operators and equipment.

6. *Integrating CAD/CAM with Autogauge CNC 1000*

This guide explains how to effectively integrate CAD (Computer-Aided Design) and CAM (Computer-Aided Manufacturing) software with the Autogauge CNC 1000. It covers software selection, data transfer, and workflow optimization to streamline the production process from design to finished product.

7. *Autogauge CNC 1000 for Small Manufacturing Businesses*

Tailored for small-scale manufacturers, this book discusses how to leverage the Autogauge CNC 1000 to enhance production capabilities and reduce costs. It provides insights on scaling operations, managing resources, and choosing

the right tools and materials for various manufacturing needs.

8. *Customizing Autogauge CNC 1000: Hardware and Software Enhancements*

This title focuses on customizing and upgrading the Autogauge CNC 1000 to meet specific operational requirements. It explores hardware add-ons, software modifications, and integration with other automation systems to boost performance and versatility.

9. *Case Studies in Autogauge CNC 1000 Applications*

Featuring real-world case studies, this book highlights successful applications of the Autogauge CNC 1000 across different industries. Readers gain insights into problem-solving, innovative machining solutions, and the impact of CNC technology on manufacturing productivity.

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AutoGauge CNC 1000: A Deep Dive into Precision and Performance

Ebook Title: Mastering the AutoGauge CNC 1000: A Comprehensive Guide to Precision Machining

Outline:

Introduction: What is the AutoGauge CNC 1000? Its key features and applications. Why choose this specific model?

Chapter 1: Setting Up Your AutoGauge CNC 1000: Unboxing, installation, software setup, and initial calibration. Troubleshooting common setup issues.

Chapter 2: Mastering the Control Software: A detailed walkthrough of the software interface, G-code programming basics, and advanced features.

Chapter 3: Material Selection and Tooling: Choosing the right materials for your projects, selecting appropriate cutting tools, and understanding tool life.

Chapter 4: Common Machining Operations: Explanations and practical examples of milling, drilling, engraving, and other operations on the AutoGauge CNC 1000.

Chapter 5: Advanced Techniques and Optimization: Exploring techniques for improving accuracy, speed, and surface finish. Tips for optimizing your workflow.

Chapter 6: Maintenance and Troubleshooting: Regular maintenance procedures, diagnosing and resolving common problems, and extending the lifespan of your machine.

Chapter 7: Safety Precautions and Best Practices: Essential safety guidelines for operating a CNC machine, minimizing risks, and ensuring a safe working environment.

Conclusion: Recap of key concepts, future developments in CNC machining, and resources for further learning.

AutoGauge CNC 1000: A Comprehensive Guide to Precision Machining

Introduction: Unveiling the Power of the AutoGauge CNC 1000

The AutoGauge CNC 1000 represents a significant advancement in desktop CNC machining, offering a powerful yet accessible platform for hobbyists, makers, and small businesses alike. This machine stands out due to its compact size, user-friendly interface, and surprisingly robust capabilities. Unlike larger, industrial CNC machines, the AutoGauge CNC 1000 is designed for ease of use, requiring minimal prior experience to achieve impressive results. This guide will serve as your comprehensive resource to unlock the full potential of this versatile machine, taking you from initial setup to mastering advanced machining techniques. We'll explore its key features, delve into its software, and provide practical guidance on various machining operations.

Chapter 1: Setting Up Your AutoGauge CNC 1000: A Smooth Start

Successfully setting up your AutoGauge CNC 1000 is crucial for accurate and efficient machining. This chapter will guide you through the entire process, from unboxing and initial inspection to software installation and calibration.

Unboxing and Inspection: Carefully unpack the machine and inspect all components for any damage. Familiarize yourself with the included tools and accessories.

Assembly and Installation: Follow the manufacturer's instructions meticulously for assembly. Ensure the machine is level and securely mounted on a stable work surface. Proper grounding is essential for safety.

Software Installation and Setup: Download and install the necessary software from the AutoGauge website. Follow the on-screen instructions to configure the software settings and connect the machine to your computer.

Initial Calibration and Testing: Performing initial calibration is vital for ensuring the accuracy of your machine. The software usually provides guided calibration procedures. Conduct several test runs with simple G-code programs to verify the machine's operation.

Troubleshooting Common Setup Issues: This section will address common problems encountered during setup, such as connectivity issues, software errors, and mechanical misalignments, providing practical solutions for each.

Chapter 2: Mastering the Control Software: Unlocking the Potential

The AutoGauge CNC 1000's software is the key to controlling the machine's precision movements. This chapter provides a detailed walkthrough of the software interface, explaining its various functions and capabilities.

Navigating the Software Interface: This section will guide you through the various menus, toolbars, and settings within the software, providing clear explanations for each function.

G-Code Programming Basics: Understanding G-code is fundamental to operating a CNC machine. This section will cover the basics of G-code programming, explaining common commands and how to create simple programs.

Advanced Software Features: Explore more advanced features of the software, such as macros, custom tool libraries, and work coordinate systems.

Creating and Running G-Code Programs: Learn how to create, edit, and run G-code programs using the software, providing practical examples and step-by-step instructions.

Chapter 3: Material Selection and Tooling: Precision Through Choice

Choosing the right materials and tooling is crucial for achieving desired results.

Material Selection: This section explores various materials compatible with the AutoGauge CNC 1000, including wood, acrylic, aluminum, and plastics. Considerations such as material hardness, machinability, and surface finish will be discussed.

Selecting Cutting Tools: This section focuses on various cutting tools, such as end mills, drills, and engraving bits. Factors influencing tool selection include material type, cutting depth, and desired surface finish.

Understanding Tool Life: Learn to identify signs of tool wear and understand the factors that affect tool life, allowing you to optimize your machining process and minimize tool replacement costs.

Chapter 4: Common Machining Operations: Putting Theory into Practice

This chapter provides practical examples of common machining operations.

Milling: Learn about different milling techniques, including face milling, pocket milling, and profile milling.

Drilling: Master the techniques for precise drilling, including hole sizing, depth control, and preventing drill breakage.

Engraving: Explore the art of engraving on the AutoGauge CNC 1000, including techniques for creating sharp and detailed engravings.

Other Operations: This section covers other machining operations that can be performed, such as routing, cutting, and shaping.

Chapter 5: Advanced Techniques and Optimization: Reaching Peak Performance

This chapter explores techniques for maximizing the efficiency and precision of your machining process.

Improving Accuracy: Learn about techniques for improving the accuracy of your cuts, including optimizing feed rates, spindle speeds, and toolpaths.

Increasing Speed: Explore ways to increase the speed of your machining operations without compromising accuracy.

Optimizing Surface Finish: Learn about techniques for achieving a smoother and more polished surface finish on your workpieces.

Workflow Optimization: Discover strategies for streamlining your workflow, minimizing setup time, and maximizing productivity.

Chapter 6: Maintenance and Troubleshooting: Keeping Your Machine Running Smoothly

Regular maintenance and timely troubleshooting are essential for prolonging the life of your AutoGauge CNC 1000.

Regular Maintenance Procedures: This section outlines a schedule for regular maintenance tasks, including cleaning, lubrication, and inspection of critical components.

Diagnosing and Resolving Common Problems: This section provides troubleshooting guidance for common issues, such as mechanical malfunctions, software errors, and accuracy problems.

Extending the Lifespan of Your Machine: Learn about practices that will help you extend the operational life of your AutoGauge CNC 1000, minimizing downtime and maximizing its value.

Chapter 7: Safety Precautions and Best Practices: Prioritizing Safety

Safety should always be the top priority when operating a CNC machine.

Essential Safety Guidelines: This section details essential safety guidelines, including proper use of personal protective equipment (PPE), safe handling of tools and materials, and emergency procedures.

Minimizing Risks: Learn about techniques for minimizing risks associated with operating a CNC machine, including proper machine setup, secure workpiece clamping, and emergency stop procedures.

Ensuring a Safe Working Environment: This section provides guidance on creating and maintaining a safe and organized workspace.

Conclusion: A Journey into Precision

The AutoGauge CNC 1000 provides a powerful and accessible platform for precision machining. By understanding its features, mastering its software, and applying the techniques discussed in this guide, you can unlock its full potential and create a wide range of impressive projects. Remember that continuous learning and practice are key to mastering any CNC machine.

FAQs

1. What materials can I machine with the AutoGauge CNC 1000? A wide range of materials, including wood, acrylic, aluminum, plastics, and soft metals. However, always check the machine's specifications for material compatibility.
2. What type of software does the AutoGauge CNC 1000 use? The specific software will depend on the model, but generally, it uses user-friendly software with a graphical interface and G-code support.
3. How do I calibrate the AutoGauge CNC 1000? The software usually provides guided calibration

procedures. Refer to the manual for detailed instructions.

4. What safety precautions should I take when using the AutoGauge CNC 1000? Always wear appropriate safety glasses, hearing protection, and a dust mask. Ensure the machine is securely mounted and properly grounded.
5. What is the maximum cutting depth of the AutoGauge CNC 1000? The maximum cutting depth varies depending on the specific model and the tooling used. Consult the machine's specifications.
6. How do I troubleshoot common problems with the AutoGauge CNC 1000? Check the manual for troubleshooting guides. Common issues often involve software glitches, connectivity problems, or mechanical adjustments.
7. Where can I find replacement parts for the AutoGauge CNC 1000? Contact the manufacturer or authorized dealers for replacement parts.
8. What is the warranty on the AutoGauge CNC 1000? The warranty period varies depending on the vendor and the specific model. Check the purchase agreement for details.
9. Can I use different types of cutting tools with the AutoGauge CNC 1000? Yes, but always ensure that the tools are compatible with the machine's spindle and the material being machined.

Related Articles:

1. AutoGauge CNC 1000 vs. Competitors: A comparative analysis of the AutoGauge CNC 1000 with other desktop CNC machines.
2. AutoGauge CNC 1000 Advanced G-Code Programming: Advanced G-code techniques and programming for the AutoGauge CNC 1000.
3. AutoGauge CNC 1000 Maintenance and Repair Guide: A detailed guide to maintaining and repairing your AutoGauge CNC 1000.
4. AutoGauge CNC 1000 Projects for Beginners: A collection of easy-to-follow projects for beginners using the AutoGauge CNC 1000.
5. Optimizing Cutting Parameters for AutoGauge CNC 1000: A guide to optimizing cutting speeds, feed rates, and depth of cut for various materials.
6. Troubleshooting Common Errors on AutoGauge CNC 1000: A detailed troubleshooting guide for common errors encountered when using the AutoGauge CNC 1000.
7. AutoGauge CNC 1000 Software Tutorials: A series of video tutorials demonstrating the use of the AutoGauge CNC 1000 software.
8. Creating Custom Toolpaths for AutoGauge CNC 1000: A guide on creating custom toolpaths using CAD/CAM software.
9. Safety First: A Comprehensive Guide to Safe CNC Machining: A general guide emphasizing safety practices for all CNC machining operations.

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Flexible Packaging, Second Edition, provides a thorough introduction to the manufacturing and applications of flexible plastic films, covering materials, hardware and processes, and multilayer film designs and applications. The book gives engineers and technicians a better understanding of the capability and limitations of multilayer flexible films and how to use them to make effective packaging. It includes contributions from world renowned experts and is fully updated to reflect the rapid advances made in the field since 2009, also including an entirely new chapter on the use of bio-based polymers in flexible packaging. The result is a practical, but detailed reference for polymeric flexible packaging professionals, including product developers, process engineers, and technical service representatives. The materials coverage includes detailed sections on polyethylene, polypropylene, and additives. The dies used to produce multilayer films are explored in the hardware section, and the process engineering of film manufacture is explained, with a particular focus on meeting specifications and targets. In addition, a new chapter has been added on regulations for food packaging - including both FDA and EU regulations. - Provides a complete introduction to multilayer flexible packaging, assisting plastics practitioners with the development, design, and manufacture of flexible packaging for food, cosmetics, pharmaceuticals, and more - Presents thorough, well-written, and up-to-date reviews of the current technology by experts in the field, making this an essential reference for any engineer or manager - Includes discussion and analysis of the latest rules and regulations governing food packaging

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autogauge cnc 1000: Job Shop Lean Shahrukh A. Irani, 2020-05-04 In the 1950's, the design and implementation of the Toyota Production System (TPS) within Toyota had begun. In the 1960's, Group Technology (GT) and Cellular Manufacturing (CM) were used by Serck Audco Valves, a high-mix low-volume (HMLV) manufacturer in the United Kingdom, to guide enterprise-wide transformation. In 1996, the publication of the book Lean Thinking introduced the entire world to Lean. Job Shop Lean integrates Lean with GT and CM by using the five Principles of Lean to guide its implementation: (1) identify value, (2) map the value stream, (3) create flow, (4) establish pull, and (5) seek perfection. Unfortunately, the tools typically used to implement the Principles of Lean are incapable of solving the three Industrial Engineering problems that HMLV manufacturers face when implementing Lean: (1) finding the product families in a product mix with hundreds of different products, (2) designing a flexible factory layout that fits hundreds of different product routings, and (3) scheduling a multi-product multi-machine production system subject to finite capacity constraints. Based on the Author's 20+ years of learning, teaching, researching, and implementing Job Shop Lean since 1999, this book Describes the concepts, tools, software, implementation methodology, and barriers to successful implementation of Lean in HMLV production systems Utilizes Production Flow Analysis instead of Value Stream Mapping to eliminate waste in different levels of any HMLV manufacturing enterprise Solves the three Industrial Engineering problems that were mentioned earlier using software like PFAST (Production Flow Analysis and Simplification Toolkit), Sgetti and Schedlyzer Explains how the one-at-a-time implementation of manufacturing cells constitutes a long-term strategy for Continuous Improvement Explains how product families and manufacturing cells are the basis for implementing flexible automation, machine monitoring, virtual cells, Manufacturing Execution Systems, and other elements of Industry 4.0 Teaches a new method, Value Network Mapping, to visualize large multi-product multi-machine production systems whose Value Streams share many processes Includes real success stories of Job Shop Lean implementation in a variety of production systems such as a forge shop, a machine shop, a fabrication facility and a shipping department Encourages any HMLV manufacturer planning to implement Job Shop Lean to leverage the co-curricular and extracurricular programs of an Industrial Engineering department

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"The Book entitled Mechanization of Horticulture deals with different operations for production and post-harvest processing and management of horticultural crops and commodities. This book is essentially a Monograph which has been divided into 16 chapters. Chapters I and II summaries the current horticultural scenario as well as status of agricultural mechanization in india. Chapter III through XII deal with various operations, viz. seed bed preparation, planting, nursery raising, soil working tools transplanting of seedlings weeding and mulching, pruning, spraying and harvesting. Information regarding different types of equipment available in India and abroad has been included in these chapters. The last three chapters viz. chapters XIII through XVI deal with packaging of horticultural produce post harvest management and storage, green house design and construction as well as irrigation systems. Thus, it will serve as a useful reference book for teachers, researchers, extension workers, farmers, students as well as other state holder."

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Zero to One: Notes on Startups, or How to Build the Future The Age of Google, built on big data and machine intelligence, has been an awesome era. But it's coming to an end. In *Life after Google*, George Gilder—the peerless visionary of technology and culture—explains why Silicon Valley is suffering a nervous breakdown and what to expect as the post-Google age dawns. Google's astonishing ability to “search and sort” attracts the entire world to its search engine and countless other goodies—videos, maps, email, calendars....And everything it offers is free, or so it seems. Instead of paying directly, users submit to advertising. The system of “aggregate and advertise” works—for a while—if you control an empire of data centers, but a market without prices strangles entrepreneurship and turns the Internet into a wasteland of ads. The crisis is not just economic. Even as advances in artificial intelligence induce delusions of omnipotence and transcendence, Silicon Valley has pretty much given up on security. The Internet firewalls supposedly protecting all those passwords and personal information have proved hopelessly permeable. The crisis cannot be solved within the current computer and network architecture. The future lies with the “cryptocosm”—the new architecture of the blockchain and its derivatives. Enabling cryptocurrencies such as bitcoin and ether, NEO and Hashgraph, it will provide the Internet a secure global payments system, ending the aggregate-and-advertise Age of Google. Silicon Valley, long dominated by a few giants, faces a “great unbundling,” which will disperse computer power and commerce and transform the economy and the Internet. *Life after Google* is almost here. For fans of *Wealth and Poverty*, *Knowledge and Power*, and *The Scandal of Money*.

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