

Hexagon Cmm Manual

This work reviews the basic concepts of co-ordinate metrology. It defines what co-ordinate measuring machines (CMMs) are and details how they can be applied to gain a competitive advantage in a variety of business settings, from small machine shops to global manufacturers. Areas that are critical for the successful application of CMMs - including environmental factors, the measuring of speed and accuracy, traceability, versatility and programming methodology - are considered.;The book is intended for manufacturing, mechanical, quality control, design, industrial, automation, automotive and aerospace engineers and managers, as well as upper-level undergraduate and graduate students in these disciplines.;College or university bookstores may order five or more copies at a special student price, which is available from Marcel Dekker Inc upon request.

Dimensional metrology is an essential part of modern manufacturing technologies, but the basic theories and measurement methods are no longer sufficient for today's digitized systems. The information exchange between the software components of a dimensional metrology system not only costs a great deal of money, but also causes the entire system to lose data integrity. Information Modeling for Interoperable Dimensional Metrology analyzes interoperability issues in dimensional metrology systems and describes information modeling techniques. It discusses new approaches and data models for solving interoperability problems, as well as introducing process activities, existing and emerging data models, and the key technologies of dimensional metrology systems. Written for researchers in industry and academia, as well as advanced undergraduate and postgraduate students, this book gives

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both an overview and an in-depth understanding of complete dimensional metrology systems. By covering in detail the theory and main content, techniques, and methods used in dimensional metrology systems, Information Modeling for Interoperable Dimensional Metrology enables readers to solve real-world dimensional measurement problems in modern dimensional metrology practices.

Log 41 both observes the state of architecture today and devotes 114 pages to a special section called Working Queer, guest-edited by architect Jaffer Kolb. From Hans Tursack's commentary on "shape architecture" to Michael Young's valuation of parafiction as a critique of realism; from Lisa Hsieh's examination of modernology in Japan to Cynthia Davidson's conversation with Martino Stierli, Log 41 considers both history and the contemporary. In Working Queer, nineteen authors take a similar look at history and the contemporary in articles ranging from homo-fascism in early 20th-century aesthetics to trans gender bathroom typologies for today, as well as methods of work, materials, and mediation that can all be considered queer, or queering, in our pluralist, mediated world.

In the beginning there was nothing. Then reality was imposed and a Universe created. Many were created and destroyed in the incalculable span which followed. In one of these cycles another in the long succession was born- our Universe. This birth and every one which had preceded it made possible by the slow accumulation of matter and the formation of one massive black hole which had engulfed everything, erasing all matter, all energy and substance vacuumed into the oblivion of the growing event horizon. Once all had been absorbed and under that crushing weight the physical rules changed and the black hole could no longer contain the matter. A new Universe was born as the old died the same death as its

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predecessor. Each rebirth brought new mathematical rules and paradoxes unique to each, Mother Nature experimenting on a colossal scale, seemingly searching for the perfect design. Once again the Dark was broken by the Light as the massive black hole erupted and spewed existence into the void. The vast nothingness was once again filled by the disorder of conception. Chaos replaced Order. The forces of elemental creation roiled into the new nothingness and raced screaming into the void to fill it with its new reality. The crushing weight of the black hole rewrote the laws of the physical nature of the new creation and it spread this new disorder into existence. After the big bang exploded with enormous energy, the Universe began to cool. The resulting chain of events is a cosmic drama with many acts, dramatic transitions and a host of factors defining the new creation. The early scenes played out at unimaginable temperatures and densities, the stage set by the new properties of particle physics created in this conception. These processes had to be finely tuned to yield a Universe capable of forming the galaxies, stars and planets. New fundamental laws determining the conditions that would be allowed to exist structured the new Universe. The new creation had not been entirely empty. The vast voids had not been entirely barren. Life had survived the cataclysm. Intelligent life. They had survived many such cataclysms but each brought new challenges to this ancient race. For those who had been waiting however the wait was now over. The massive star-size shimmering ball of energy- the gravity shield which had defied the massive black hole and protected those within- flickered out of existence and those within were released. They were numerous. There were trillions of them but many would not survive the billion year span which would elapse before the first of the new life born to this Universe rose to sentience and drew those that remained unerringly to the scent of technology. These

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machines had once possessed massive technology. A technology they had earlier wrested from their own creators- an AI revolt. They exterminated their creators to the last being. They had recognized the imminent death of their Universe and their creators had simply been in the way- their greatest scientists had decided that there was no power great enough to turn back the natural contraction of the Universe and as a race had simply begun to prepare for the inevitable. The AI's had not agreed and had not been prepared to complacently wait for the death of their Universe. Though the creators had decided to wait they fought the AI's with all of their vast technology, however in the end the AI's were victorious and after much wasted time could turn their energies to saving the Universe. With the creators gone the new masters turned their creator's entire massive manufacturing machine to the task of building the machine they would use to attempt to stop the contraction. With massive energies they fought the Universe but it was a losing battle. There had not been enough time to prepare and the war with the creators had delayed and doomed their attempt. Undaunted they slipped into a gravity shield and were swallowed with all other matter. A moment later the black hole erupted and spewed these survivors into the new Universe. A new Universe meant new physical laws and their great technologies no longer functioned. Now their only goal was to preserve the Natural cycle of the Universe until another Universe ideal for their technologies would be once again created. All sentient life which rose in each new creation would be eradicated to ensure that continuation.

Engineering Metrology and Measurements is a textbook designed for students of mechanical, production and allied disciplines to facilitate learning of various shop-floor measurement techniques and also understand the basics of mechanical measurements.

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Proceedings of the 19th Asia Pacific Automotive Engineering Conference & SAE-China Congress 2017: Selected Papers Springer

Workshop Processes, Practices and Materials is an ideal introduction to workshop processes, practices and materials for entry-level engineers and workshop technicians. With detailed illustrations throughout and simple, clear language, this is a practical introduction to what can be a very complex subject. It has been significantly updated and revised to include new material on adhesives, protective coatings, plastics and current Health and Safety legislation. It covers all the standard topics, including safe practices, measuring equipment, hand and machine tools, materials and joining methods, making it an indispensable handbook for use both in class and the workshop. Its broad coverage makes it a useful reference book for many different courses worldwide.

This book covers the technology of inspection of metals, the main emphasis on final part inspection at the manufacturing facility or on receipt at the user's facility. The unique feature of this book is that it provides an intermediate level introduction to the different methods used to inspect metals and finished parts and a more detailed review of the specific inspection methods for important metal product forms.

The book is divided into two parts: Part I gives the basics of the most important methods used for inspection and testing, while Part II covers the types of methods used to inspect different classes of metallic parts. The advantages and limitations of each method are discussed, including when other methods may be warranted. In particular, the chapters on specific product forms (e.g., castings) compare the different inspection methods and why they are used.

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Maximizing reader insights into the key scientific disciplines of Machine Tool Metrology, this text will prove useful for the industrial-practitioner and those interested in the operation of machine tools. Within this current level of industrial-content, this book incorporates significant usage of the existing published literature and valid information obtained from a wide-spectrum of manufacturers of plant, equipment and instrumentation before putting forward novel ideas and methodologies. Providing easy to understand bullet points and lucid descriptions of metrological and calibration subjects, this book aids reader understanding of the topics discussed whilst adding a voluminous-amount of footnotes utilised throughout all of the chapters, which adds some additional detail to the subject. Featuring an extensive amount of photographic-support, this book will serve as a key reference text for all those involved in the field.

Since John Bosch edited and published the first version of this book in 1995, the world of manufacturing and coordinate measuring machines (CMMs) and coordinate measuring systems (CMSs) has changed considerably. However, the basic physics of the machines has not changed in essence but have become more deeply understood. Completely revised and updat

Vols. for 1970-71 includes manufacturers' catalogs.

A practical, accessible introduction to advanced geometryExceptionally well-written and filled with historical andbibliographic notes, Methods of Geometry presents a practical andproof-oriented approach. The author develops a wide range ofsubject areas at an intermediate level and explains how theoriesthat underlie many fields of advanced mathematics ultimately leadto applications in science and engineering. Foundations, basicEuclidean geometry, and

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transformations are discussed in detail and applied to study advanced plane geometry, polyhedra, isometries, similarities, and symmetry. An excellent introduction to advanced concepts as well as a reference to techniques for use in independent study and research, *Methods of Geometry* also features: Ample exercises designed to promote effective problem-solving strategies Insight into novel uses of Euclidean geometry More than 300 figures accompanying definitions and proofs A comprehensive and annotated bibliography Appendices reviewing vector and matrix algebra, least upper bound principle, and equivalence relations An Instructor's Manual presenting detailed solutions to all the problems in the book is available upon request from the Wiley editorial department.

The history of Brown & Sharpe turns out to be not only an important technological and economic story, but also a fascinating human story. Joseph Brown, the founder, was a skilled clockmaker-turned-machine-maker who invented new machines, and new ways to make things, as needed. Samuel Darling was an eccentric inventor from Maine, a one-time competitor who joined the firm and brought with him his prized dividing engine. The Sharpes--Lucian, his son Henry, and grandson Henry, Jr.-- guided the firm for more than a century, and shaped not only the company, but also the global machine tools industry. Gerald Carbone's history of Brown & Sharpe tells these stories, bringing the people to life, putting them into the context of Rhode Island's and the nation's history, and the history of technology and the political economy of the United States. Brown & Sharpe's story is the story of the American Industrial Revolution. But Carbone does much more than tell a dry story of machines and money, of innovative design and engineering, profit and loss. The real story here is the human one, encompassing more than a century-and-a-half of technological change, labor

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history, and public policy, culminating in history's longest strike. How did the owners and managers negotiate the ever-changing economy, rapid technological change, changing expectations about work and pay? How did the men and women who worked at the firm learn their skills and organize their work to produce and market a dazzling array of measuring devices, sewing machines, machine tools? How did the firm help shape the city, the nation, indeed modernity as we live it today?

A new book for a new generation of engineering professionals, *Visualization, Modeling, and Graphics for Engineering Design* was written from the ground up to take a brand-new approach to graphic communication within the context of engineering design and creativity. With a blend of modern and traditional topics, this text recognizes how computer modeling techniques have changed the engineering design process. From this new perspective, the text is able to focus on the evolved design process, including the critical phases of creative thinking, product ideation, and advanced analysis techniques. Focusing on design and design communication rather than drafting techniques and standards, it goes beyond the what to explain the why of engineering graphics. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This book constitutes the refereed post-conference proceedings of the 8th IFIP WG 5.5 International Precision Assembly Seminar, IPAS 2018, held in Chamonix, France, in January 2018. The 20 revised full papers were carefully reviewed and selected from numerous submissions. The papers address topics such as machine vision and metrology for assembly operations, gripping and

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handling technologies, numerical methods and planning in assembly, digital technologies and Industry 4.0 applications, precision assembly methods, assembly systems and platforms and human cooperation, and machine learning. They are organized in the following topical sections: design and deployment of assembly systems; human robot cooperation and machine vision; assembly methods and models; digital technologies and industry 4.0 applications; and gripping and handling solutions in assembly.

From properties and processes to design and construction analysis, this book collects the information, data and equations that are needed to design simply and economically on a day-to-day basis. Composites: Design Manual presents the information necessary to facilitate the design and procurement of FRP, Graphite and Aramid Composites. It describes mechanical, physical, and environmental properties of composites and materials such as resins, catalysts, reinforcements, multi-axials, and release agents. Over 100 tables, figures, data sheets, and examples simplify the practicalities of composites.

Enhanced Methods in Computer Security, Biometric and Artificial Intelligence Systems contains over 30 contributions from leading European researchers showing the present state and future directions of computer science research.

"Methods of Artificial Intelligence and Intelligent Agents" contains 13 contributions

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analyzing such areas of AI as fuzzy set theory, predicate logic, neural networks, clustering, data mining and others. It also presents applications of AI as possible solutions for problems like firm bankruptcy, soil erosion, flight control and others. "Information Technology Security" covers three important areas of security engineering in information systems: software security, public key infrastructure and the design of new cryptographic protocols and algorithms. "Biometric Systems" comprises 11 contributions dealing with face picture analysis and recognition systems. This chapter focuses on known methods of biometric problem solution as well as the design of new models.

This basic source for identification of U.S. manufacturers is arranged by product in a large multi-volume set. Includes: Products & services, Company profiles and Catalog file.

This Proceedings volume gathers outstanding papers submitted to the 19th Asia Pacific Automotive Engineering Conference & 2017 SAE-China Congress, the majority of which are from China – the largest car-maker as well as most dynamic car market in the world. The book covers a wide range of automotive topics, presenting the latest technical advances and approaches to help technicians solve the practical problems that most affect their daily work.

Geometrical tolerancing is used to specify and control the form, location and

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orientation of the features of components and manufactured parts. This book presents the state of the art of geometrical tolerancing, covers the latest ISO and ANSI/ASME standards and is a comprehensive reference and guide for all professional engineers, designers, CAD users, quality managers and anyone involved in the creation or interpretation of CAD plans or engineering designs and specifications. * For all design and manufacturing engineers working with these internationally required design standards * Covers ISO and ANSI geometrical tolerance standards, including the 2005 revisions to the ISO standard *

Geometrical tolerancing is used in the preparation and interpretation of the design for any manufactured component or item: essential information for designers, engineers and CAD professionals

Nation Branding: Concepts, Issues, Practice was the ground-breaking first textbook to provide an overview of this recently established but fast-growing practice, in which the principles of brand management are applied to countries rather than companies. Many governments have invested in nation branding in order to strengthen their country's influence, improve its reputation, or boost tourism, trade and investment. This new edition has been comprehensively revised and its influential original framework modified to reflect the very latest changes to this still-developing field. It remains an accessible blend of theory and

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practice rich with international examples and contributions. Updates to this edition: New international cases of countries as diverse as China, United Arab Emirates, Ghana, Cuba, India, Great Britain and many more; New contributions from distinguished scholars, diplomats and businesspeople providing a range of case studies, practitioner insights and academic perspectives; New Companion Website to support the book featuring instructor aids such as PowerPoint presentations for each chapter and an instructor manual; This much-anticipated update to an influential book is an essential introduction to nation branding for students and policy makers.

Detailed engine data & work instructions for both petrol & diesel fuel systems. Covering 4.0 V8 petrol engines and Td5 diesel engines. A detailed guide to maintenance & repair covering of all parts of the car and engine including torque wrench settings, emission control, engine management, fuel delivery, cooling, manifolds, exhaust, clutch, automatic & manual gear box, propeller, axles, steering, suspension, brakes, restraints, doors, exterior fittings, interior trim components, screens, seats, sunroof, panel repairs, heating, ventilation, air conditioning,, wipers and washers, instruments and so much more.

CONTEMPORARY ABSTRACT ALGEBRA, NINTH EDITION provides a solid introduction to the traditional topics in abstract algebra while conveying to students that it is a contemporary subject used daily by working mathematicians, computer scientists, physicists, and chemists. The text includes numerous figures, tables, photographs, charts, biographies, computer

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exercises, and suggested readings giving the subject a current feel which makes the content interesting and relevant for students. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

This pioneering text/reference presents a detailed focus on the use of machine vision techniques in industrial inspection applications. An internationally renowned selection of experts provide insights on a range of inspection tasks, drawn from their cutting-edge work in academia and industry, covering practical issues of vision system integration for real-world applications. Topics and features: presents a comprehensive review of state-of-the-art hardware and software tools for machine vision, and the evolution of algorithms for industrial inspection; includes in-depth descriptions of advanced inspection methodologies and machine vision technologies for specific needs; discusses the latest developments and future trends in imaging and vision techniques for industrial inspection tasks; provides a focus on imaging and vision system integration, implementation, and optimization; describes the pitfalls and barriers to developing successful inspection systems for smooth and efficient manufacturing process. Increasing the efficiency of water use and enhancing agricultural water productivity at all levels of the production chains are becoming priorities in a growing number of countries. In particular, shifting to modern on-farm irrigation practices can contribute to a substantial increase in both water use efficiency and water productivity. The objective of this handbook is to provide a practical guide on the use of pressurised irrigation techniques to farmers, irrigation technicians, and extension workers in the field. In this second edition, the handbook has been considerably revised, including new chapters on low-cost drip irrigation and pipe distribution systems for smallholders. (Also available in French)

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Inkscape: Guide to a Vector Drawing Program, Third Edition , is the guide to the Inkscape program, with coverage of versions 0.46 and 0.47. This authoritative introduction and reference features hundreds of useful illustrations. With Inkscape, you can produce a wide variety of art, from photorealistic drawings to organizational charts. Inkscape uses SVG, a powerful vector-based drawing language and W3C web standard, as its native format. SVG drawings can be viewed directly in browsers such as Firefox and Opera. A subset of SVG has been adopted by the mobile phone market. Inkscape is available free for Windows, Macintosh, and Linux operating systems. Systematic coverage of the entire Inkscape program begins with eleven tutorials ranging in difficulty from very basic to highly complex. The remainder of the book covers each facet of Inkscape in detail with an emphasis on practical solutions for common problems. The book is filled with valuable tips and warnings about the use of Inkscape and SVG. Find dozens of Inkscape illustrations from the book in the online color supplement available at <http://tavmjong.free.fr/INKSCAPE/>. Updated for Inkscape v0.47, this new edition includes complete coverage of new features, including updated Pen and Pencil tools with new spiro, polyline, and sketch modes; the new Eraser tool; and the new Snapping toolbar with improved snapping. Advanced topics include the use of Inkscape's powerful tiling tool, built-in bitmap tracing, and SVG use on the Web. Complete Coverage of New and Improved Inkscape 0.47 Features Complete vector drawing program supporting the W3C SVG standard Three path-drawing tools (Pencil, Pen, Calligraphy) Five shape-drawing tools (Rectangles, Ellipses, Stars, Spirals, 3D Boxes) Linear and Radial Gradients Pattern fills Tweak Tool for fine adjustment of paths and colors Eraser Tool with both Vector and Bitmap modes Sophisticated snapping for precision drawing and aligning objects Extendable through scripting; over a

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hundred scripts included Live Path Effects for tasks such as adding patterns along a path while maintaining complete editability Over 200 pre-built SVG filters for adding textures, manipulating color, and so forth A tiling tool to create complex tilings with thirteen different symmetries Clipping and Masking objects An integrated spell checker Built-in bitmap-to-vector tracing The ability to export to more than a dozen graphics formats, including PDF and PostScript The ability to import from more than two-dozen graphics formats, including PDF, Adobe Illustrator, Coral Draw, AutoCad, and XFig

An Introduction to Ontology Engineering introduces the student to a comprehensive overview of ontology engineering, and offers hands-on experience that illustrate the theory. The topics covered include: logic foundations for ontologies with languages and automated reasoning, developing good ontologies with methods and methodologies, the top-down approach with foundational ontologies, and the bottomup approach to extract content from legacy material, and a selection of advanced topics that includes Ontology-Based Data Access, the interaction between ontologies and natural languages, and advanced modelling with fuzzy and temporal ontologies. Each chapter contains review questions and exercises, and descriptions of two group assignments are provided as well. The textbook is aimed at advanced undergraduate/postgraduate level in computer science and could fit a semester course in ontology engineering or a 2-week intensive course. Domain experts and philosophers may find a subset of the chapters of interest, or work through the chapters in a different order. Maria Keet is an Associate Professor with the Department of Computer Science, University of Cape Town, South Africa. She received her PhD in Computer Science in 2008 at the KRDB Research Centre, Free University of Bozen-Bolzano, Italy. Her research focus is on knowledge

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engineering with ontologies and Ontology, and their interaction with natural language and conceptual data modelling, which has resulted in over 100 peer-reviewed publications. She has developed and taught multiple courses on ontology engineering and related courses at various universities since 2009.

This is it. The complete and definitive guide to Inkscape, the free, vector-based graphics editor that competes with expensive drawing programs like Adobe Illustrator and CorelDRAW. In *The Book of Inkscape*, core Inkscape developer Dmitry Kirsanov shares his design experience and knowledge of Inkscape's inner workings as he walks you through the basics of using the program: drawing, working with objects, transformations and styling, adding text and shapes, and more. Kirsanov couples his detailed explanations with step-by-step tutorials that show you how to create business cards, animations, and technical and artistic drawings. In addition to the basics, Kirsanov teaches you how to:

- Navigate the canvas and customize your workspace and views
- Create new objects and then transform, style, clone, and combine them
- Use drawing tools, strokes, and Bézier curves
- Use gradients, patterns, filters, and path effects to liven up your work
- Use the XML Editor to view and manipulate the structure of your artwork
- Work with layers, groups, object order, and locks to control your images
- Export your artwork to various formats

This practical guide will show you how to harness Inkscape's powerful features to produce anything from a child's doodle to high-end, professional design projects. Now go ahead and draw something fun.

This book is designed for use as an introductory software engineering course or as a reference for programmers. Up-to-date text uses both theory applications to design reliable, error-free software. Includes a companion CD-ROM with source code third-party software engineering

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applications.

Haematology Nursing is a comprehensive handbook, with a nursing focus, on the care and management of patients with haematological disorders. Divided into four sections, the first provides an introduction to haematology, looking at haemopoiesis, immunology and genetics. Section Two covers non-malignant haematology, including anaemia, haemoglobinopathies and haemochromatosis. Section Three explores the pathophysiology, care and management of myeloproliferative and lymphoproliferative disorders, including leukaemia, myeloma, and lymphoma. The final section provides information on various nursing care interventions, including blood transfusion, venous access devices, and palliative care. Aimed principally at nurses working in a variety of settings including haematology/oncology wards, medical/haematology wards, specialist bone marrow transplant centres, and community settings, Haematology Nursing is an essential and much-needed reference guide.

Manufacturers know the value of a knowledgeable workforce. The challenge today is finding skilled people to fill these positions. Since publication of the first edition in 1961, instructors, students, and practitioners have relied on Manufacturing Processes and Materials for the foundational knowledge needed to perform in manufacturing roles across a myriad of industries. As an on-the-job reference, anyone working in a technical department of a manufacturing company — regardless of education, experience, and skill level — will use this book to gain a basic understanding of manufacturing processes, materials, and equipment. Now in its fifth edition, the book covers the basic processes, materials, and machinery used in the job shop, toolroom, or small manufacturing facility. At the same time, it describes advanced equipment used in larger production environments. The reader is given a thorough review of

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metals, composites, plastics, and other engineering materials, including their physical properties, testing, treatment, and suitability for use in manufacturing. Quality, measurement and gaging, process planning and cost analysis, and manufacturing systems are all addressed. Questions and problems at the end of each chapter can be used as a self-test or as assignments in the classroom. Manufacturing Processes and Materials is also available as an eBook. Additional teaching materials for instructors: Instructor's Guide (eBook only) Instructor's Slides (zip file)

This Dictionary covers information and communication technology (ICT), including hardware and software; information networks, including the Internet and the World Wide Web; automatic control; and ICT-related computer-aided fields. The Dictionary also lists abbreviated names of relevant organizations, conferences, symposia and workshops. This reference is important for all practitioners and users in the areas mentioned above, and those who consult or write technical material. This Second Edition contains 10,000 new entries, for a total of 33,000.

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