

## Clark C300 50 Parts Manual

Particulate products make up around 80% of chemical products, from all industry sectors. Examples given in this book include the construction materials, fine ceramics and concrete; the delicacies, chocolate and ice cream; pharmaceutical, powders, medical inhalers and sun screen; liquid and powder paints. Size distribution and the shape of the particles provide for different functionalities in these products. Some functions are general, others specific. General functions are powder flow and require – at the typical particulate concentrations of these products – that the particles cause adequate rheological behavior during processing and/or for product performance. Therefore, this book addresses particle packing as well as its relation to powder flow and rheological behavior. Moreover, general relationships to particle size are discussed for e.g. color and sensorial aspects of particulate products. Product-specific functionalities are often relevant for comparable product groups. Particle size distribution and shape provide, for example, the following functionalities: - dense particle packing in relation to sufficient strength is required in concrete construction, ceramic objects and pharmaceutical tablets - good sensorial properties (mouthfeel) to chocolate and ice cream - effective dissolution, flow and compression properties for pharmaceutical powders - adequate hiding power and effective coloring of paints for protection and the desired esthetical appeal of the objects - adequate protection of our body against sun light by sunscreen - effective particle transport and deposition to desired locations for medical inhalers and powder paints. Adequate particle size distribution, shape and porosity of particulate products have to be achieved in order to reach optimum product performance. This requires adequate management of design and development as well as sufficient knowledge of the underlying principles of physics and chemistry. Moreover, flammability, explosivity and other health hazards from powders, during handling, are taken into account. This is necessary, since great risks may be involved. In all aspects, the most relevant parameters of the size distribution (and particle shape) have to be selected. In this book, experts in the different product fields have contributed to the product chapters. This provides optimum information on what particulate aspects are most relevant for behavior and performance within specified industrial products and how optimum results can be obtained. It differs from other books in the way that the critical aspects of different products are reported, so that similarities and differences can be identified. We trust that this approach will lead to improved optimization in design, development and quality of many particulate products.

The idea for this book developed as an outcome of a multidisciplinary symposium entitled "Pituitary Adenoma Update" that was held at Tufts-New England Medical Center in April 1977. The purpose of that symposium was to put together our current knowledge of the cause of pituitary tumors and discuss the diagnostic evaluation and management that was now appropriate, in light of the rapid advances that had taken place so recently in this area. Those of our colleagues who had presented papers at the symposium, as well as a number of others, were invited to contribute to this volume, which should serve as a presentation of the "state of the art" on all aspects of pituitary tumors. We felt that such a book would be of value to endocrinologists, neurosurgeons, neuroradiologists, and pathologists who are involved in the investigation or care of patients with pituitary disorders. For a number of reasons, a review of pituitary adenomas seems particularly timely. Rapid advances have taken place coincidentally in the fields of neurosurgery, neuroendocrinology, neuroradiology, neuropathology, and neuropharmacology. Seven major developments in these areas have occurred independently and almost simultaneously that have virtually revolutionized our approach to pituitary adenomas.

Army Doctrine Reference Publication (ADRP) 3-0, Unified Land Operations, is the first ADRP released under Doctrine 2015. ADRP 3-0 expands on the foundations and tenets found in Army Doctrine Publication (ADP) 3-0. This ADRP expands on the doctrine of unified land operations found in ADP 3-0. The publication of ADP 3-0 shifted the Army's operational concept from full spectrum operations to unified land operations. The doctrine of unified land operations describes how the Army demonstrates its core competencies of combined arm maneuver and wide area security through decisive action. The term decisive action replaces the term full spectrum operations as the concept of continuous, simultaneous offense, defense, stability, or defense support of civil authorities. Defense support of civil authorities replaces civil support as a task under decisive action. ADRP 3-0 expands the discussion of the foundations and tenets of unified land operations, as well as the operational framework found in ADP 3-0. Additional changes in ADRP 3-0 from the now obsolete 2011 FM 3-0, Change 1, includes a discussion of the range of military operations replacing the spectrum of conflict as well as a discussion of information collection replacing intelligence, reconnaissance, and surveillance (known as ISR). These changes in ADRP 3-0 now better align Army doctrine with the joint discussion of the principles of joint operations. ADRP 3-0 remains generally consistent with the now obsolete 2011 FM 3-0, Change 1, on key topics while adopting updated terminology and concepts as necessary. These topics include the discussion of an operational environment and the operational and mission variables, as well as the discussions of unified action, law of land warfare, and combat power. As in the now obsolete 2011, FM 3-0, Change 1, mission command remains both a philosophy of command and a warfighting function. Finally, ADRP 3-0 maintains combined arms as the application of arms that multiplies Army forces' effectiveness in all operations. ADRP 3-0 contains four chapters: Chapter 1 shortens the discussion of the operational environment found on the now obsolete 2011 FM 3-0, Change 1, and emphasizes military operations. This chapter provides a framework of variables of an operational environment that shape their nature and affect outcomes. The chapter then discusses unified action and joint operations as well as land operations. Finally, this chapter discusses law of land warfare and combined arms. Chapter 2 introduces the Army's new operational concept of unified land operations. It discusses how commanders apply landpower as part of unified action to defeat the enemy on land and establish conditions that achieve the joint force commander's end state. Chapter 2 discusses how commanders demonstrate the Army's new core competencies of combined arms maneuver and wide area security conducted through decisive action. Chapter 3 discusses combat power and the warfighting functions used to generate combat power in support of unified land operations. As in the now obsolete 2011 FM 3-0, Change 1, chapter 3 discusses the eight elements of combat power that include the six warfighting functions with leadership and information. Lastly, it discusses how Army forces achieve combined arms through force tailoring, task organization, and mutual support. Chapter 4 discusses the elements of operational art and the meaning of operational art to Army forces. It elaborates on commanders and staffs applying the elements of operational art to understand, visualize, and describe how to establish conditions to achieve a desired end state. It discusses how operational art represents a creative approach to dealing with the direction of military forces and expresses an informed vision across the levels of war.

This is the second edition of a practice-oriented, well-illustrated manual on the microscopic grading of tumors. After an introduction on the history and basic tenets of tumor grading, subsequent chapters focus on specific organ systems. In each case, the most

widely used system for grading common tumors is presented and discussed. Throughout, careful attention is paid to the principles of microscopic tumor grading, ancillary methods to improve grading, and the latest techniques used in evaluating tumors and formulating prognosis. Since the first edition, all chapters have been updated to reflect revisions in the clinical practice of pathology and to explain the role of novel immunohistochemistry and molecular biology techniques. In addition, a new chapter is devoted to the latest trends in cancer grading, and further illustrations have been included. Cancer Grading Manual is a superb resource for both diagnostic surgical pathologists and pathology residents.

This illustrated history chronicles electric and hybrid cars from the late 19th century to today's fuel cell and plug-in automobiles. It describes the politics, technology, marketing strategies, and environmental issues that have impacted electric and hybrid cars' research and development. The important marketing shift from a "woman's car" to "going green" is discussed. Milestone projects and technologies such as early batteries, hydrogen and bio-mass fuel cells, the upsurge of hybrid vehicles, and the various regulations and market forces that have shaped the industry are also covered.

This handbook is the first of its kind to provide a clear, accessible, and comprehensive introduction to the most important scientific and management topics in marine environmental protection. Leading experts discuss the latest perspectives and best practices in the field with a particular focus on the functioning of marine ecosystems, natural processes, and anthropogenic pressures. The book familiarizes readers with the intricacies and challenges of managing coasts and oceans more sustainably, and guides them through the maze of concepts and strategies, laws and policies, and the various actors that define our ability to manage marine activities. Providing valuable thematic insights into marine management to inspire thoughtful application and further study, it is essential reading for marine environmental scientists, policy-makers, lawyers, practitioners and anyone interested in the field.

"A memoir as finely crafted as one of Lithgow's performances." —Steve Martin Emmy Award-winner John Lithgow presents a charming, witty, and revealing memoir about his family, his work, and his life in Drama—an intimate story of insights and inspirational reflections from one of America's most beloved actors. Lithgow pays tribute to his father, his greatest influence, and relives his collaborations with renowned performers and directors including Mike Nichols, Bob Fosse, Liv Ullmann, Meryl Streep, and Brian De Palma. A compelling reflection on the trials, triumphs, and changes across his long career, Lithgow's Drama illuminates the inner life of a celebrated talent, and points the way forward for anyone aspiring to greatness in their own life.

With the advancement of computers, the use of modeling to reduce time and expense, and improve process optimization, predictive capability, process automation, and control possibilities, is now an integral part of food science and engineering. New technology and ease of use expands the range of techniques that scientists and researchers have at the

The purpose of this manual is to present basic principles used in the design and construction of earth levees. The term levee as used herein is defined as an embankment whose primary purpose is to furnish flood protection from seasonal high water and which is therefore subject to water loading for periods of only a few days or weeks a year. Embankments that are subject to water loading for prolonged periods (longer than normal flood protection requirements) or permanently should be designed in accordance with earth dam criteria rather than the levee criteria given herein. Even though levees are similar to small earth dams they differ from earth dams in the following important respects: (a) a levee embankment may become saturated for only a short period of time beyond the limit of capillary saturation, (b) levee alignment is dictated primarily by flood protection requirements, which often results in construction on poor foundations, and (c) borrow is generally obtained from shallow pits or from channels excavated adjacent to the levee, which produce fill material that is often heterogeneous and far from ideal. Selection of the levee section is often based on the properties of the poorest material that must be used.

This important, self-contained reference deals with structural life assessment (SLA) and structural health monitoring (SHM) in a combined form. SLA periodically evaluates the state and condition of a structural system and provides recommendations for possible maintenance actions or the end of structural service life. It is a diversified field and relies on the theories of fracture mechanics, fatigue damage process, and reliability theory. For common structures, their life assessment is not only governed by the theory of fracture mechanics and fatigue damage process, but by other factors such as corrosion, grounding, and sudden collision. On the other hand, SHM deals with the detection, prediction, and location of crack development online. Both SLA and SHM are combined in a unified and coherent treatment, bringing together the major mechanical processes at work that determine the lifetime of a structure, including normal loading, extreme loading, and the effects of corrosion with relevant analysis techniques covering joints and weldments, which are features where structural failure is likely to originate reviewing diversified problems including probabilistic description of structural failure, extreme loading, environmental effects such as corrosion and hydrogen embrittlement, joints and weldments, and control of crack propagation (crack arresters) and corrosion providing a unified approach to SLA and SHM. Handbook of Structural Life Assessment will be an essential guide for aerospace structures designers and maintenance engineers, pipeline engineers, ship designers and builders, researchers in civil, mechanical, naval, and aerospace engineering, and graduate students in civil, mechanical, naval, and aerospace engineering.

You know what happens when bad boys get what they wish for? Everything. . . New York Times Bestselling Author Lori Foster Playing Doctor Attitude makes a huge difference in bed. It could be Axel Dean's motto. The sexy physician likes his women with sensual moxie, and Libby Preston definitely seems to fit that bill. There's that naughty grin. That hot bod. Her eager kisses and cheeky insults. Her. . .admitted virginity. Whoa. Okay, cue cold shower. Axel may not be an honorable man, but he has his limits. Except Libby won't take no for an answer. She's determined to have someone show her what she's been missing, and suddenly, Axel can't bear to think of Libby playing doctor with anyone else. . . USA Today Bestselling Author Erin McCarthy The Lady of the Lake Pro baseball player Dylan Diaz is pretty sure he's going to hell. When you rescue a drowning woman from a lake your first thought should be, "Are you okay?" not, "Can I make mad, passionate love to you?" But the minute sputtering kindergarten teacher Violet Caruthers is on Dylan's boat, that's

all he can think about. Maybe it's the potent combo of a nun's personality inside a stripper's body. Maybe it's the way she drives him crazy with desire and laughter. Or maybe, Dylan's finally found what's been missing in his life, and he's not about to let go. . .

The previously untold story of the Zenith Trans-Oceanic, the world's most romantic and expensive series of portable radios, now in a newly revised & expanded edition. Long a companion of kings, presidents, transoceanic yachtsmen and world explorers, the Trans-Oceanic was also carried into battle by American troops in three wars. Its great popularity in spite of a very high price can be laid at the feet of several generations of armchair travelers who used the shortwave capabilities of the Trans-Oceanic as a window on the world. With access to the Zenith corporate archives and their long experience as radio enthusiasts and writers for both the popular and scholarly press, Professors Bryant and Cones present the engrossing stories of the development and use of the Trans-Oceanic throughout its forty year life. They present a wealth of never-before published photographs, documents and information concerning these fascinating radios, their collection, preservation and restoration.

Lewis Henry Morgan of Rochester, New York, lawyer and pioneering anthropologist, was the leading American contributor of his generation to the social sciences. Among the classic works whose conjunction in the 1860s gave modern anthropology its shape, Morgan's massive and technical Systems of Consanguinity and Affinity of the Human Family was decisive. Thomas R. Trautmann offers a new interpretation of the genesis of "kinship" and of the role it played in late nineteenth-century intellectual history. This Bison Books edition features a new introduction and appendices by the author.

Embedded systems encompass a variety of hardware and software components which perform specific functions in host systems, for example, satellites, washing machines, hand-held telephones and automobiles. Embedded systems have become increasingly digital with a non-digital periphery (analog power) and therefore, both hardware and software codesign are relevant. The vast majority of computers manufactured are used in such systems. They are called 'embedded' to distinguish them from standard mainframes, workstations, and PCs. Although the design of embedded systems has been used in industrial practice for decades, the systematic design of such systems has only recently gained increased attention. Advances in microelectronics have made possible applications that would have been impossible without an embedded system design. Embedded System Applications describes the latest techniques for embedded system design in a variety of applications. This also includes some of the latest software tools for embedded system design. Applications of embedded system design in avionics, satellites, radio astronomy, space and control systems are illustrated in separate chapters. Finally, the book contains chapters related to industrial best-practice in embedded system design. Embedded System Applications will be of interest to researchers and designers working in the design of embedded systems for industrial applications.

Yours can be the first APPLE house on the block! Learn how to save time and money by using your Apple II computer to control your home: the security, lights, temperature, telephone, and much more. With John Blankenship's system of software and hardware, your house can accept verbal commands and respond with its own voice. It does not need human instruction and performs many useful tasks on its own. Once you get used to an intelligent house, you will wonder how you ever got along without one. Even though devices featured in The Apple House can be purchased, the author shows how you can save money by building some from scratch. He also points out that you can substitute equipment you already own because of the system's modularity. Although written with an Apple II computer in mind, the principles discussed can easily be transferred to other computer systems.

In 1994, the National Space Transportation Policy laid the framework for appropriate government agencies to maintain strong launch systems and infrastructure while modernizing space transportation capabilities and encouraging cost reductions. More than a decade later, through combined Department of Defense (DoD) and industrial investment, the two Evolved Expendable Launch Vehicle (EELV) families of U.S. rockets (Atlas V and Delta IV) have proved to be maturing, reliable state-of-the-art technologies. In 2004, Congress directed the Secretary of Defense to establish a panel of experts with extensive space launch and operations background to address the future National Security Space launch requirements and the means of meeting those requirements. DoD selected RAND to facilitate and support this panel in its deliberations between May 2005 and May 2006. This report analyzes the National Security Space (NSS) Launch Requirements Panel's major findings and recommendations. In short, the Panel concludes that, because basic rocketry principles, use of chemically derived thrust, and multiple expendable stages seem certain to remain the design of choice for operational space launch vehicles, the EELV can satisfy all known and projected NSS requirements through 2020. This seventh symposium in the series of biennial Gothenburg Symposia, taking place in Edingburgh 1996 continues to bring together research scientists, designing and operating engineers and funding and supervising administrators. It also has enlarged the scope of its platform by bringing together concerned specialists from Western countries and Central and Eastern Europe and furthermore attempts to bridge the gap between developing and industrialized countries. The traditionally presented topics, such as treatment of potable water and wastewater predominantly by chemical means are of utmost importance for those that need immediate action at reasonable costs. It is particularly noteworthy that an increasing number of contributions address these problems of the emerging need for environmental protection. And more and more presentations are delivered by experts from Central and Eastern Europe and from developing countries. Again the proceedings of this seventh symposium indicate and demonstrate new developments that advance the field of water and wastewater treatment. Besides the ever present topics there is now a whole section on automation and control, a highly significant topic for water technology that so far has not received too much attention in symposia of this kind addressing theoreticians and practitioners at the same time.

Introduces physics to science students with a wide range of interests. Unlike many other physics texts, the coverage and

emphasis here is influenced by the specific needs of science majors, including those in the life sciences, and thus treats topics such as geometric optics, mechanics of fluids and acoustics. The derivative is introduced in Chapter One and integrals are used sparingly until electricity and magnetism are covered. Entire chapters are devoted to applications of physics covering subjects such as nerve conduction, ionizing radiation and nuclear magnetic resonance, demonstrating the widespread utility of physics and the unity of science. To aid in comprehension, calculations involving calculus are carried out with a good deal of detail and discussion. Each chapter features a checklist of terms to define or explain as well as problems and exercises. Additional problems and exercises are located in the Supplementary Topics section. Light symbolises the highest good, it enables all visual art, and today it lies at the heart of billion-dollar industries. The control of light forms the foundation of contemporary vision. Digital Light brings together artists, curators, technologists and media archaeologists to study the historical evolution of digital light-based technologies. Digital Light provides a critical account of the capacities and limitations of contemporary digital light-based technologies and techniques by tracing their genealogies and comparing them with their predecessor media. As digital light remediates multiple historical forms (photography, print, film, video, projection, paint), the collection draws from all of these histories, connecting them to the digital present and placing them in dialogue with one another. Light is at once universal and deeply historical. The invention of mechanical media (including photography and cinematography) allied with changing print technologies (half-tone, lithography) helped structure the emerging electronic media of television and video, which in turn shaped the bitmap processing and raster display of digital visual media. Digital light is, as Stephen Jones points out in his contribution, an oxymoron: light is photons, particulate and discrete, and therefore always digital. But photons are also waveforms, subject to manipulation in myriad ways. From Fourier transforms to chip design, colour management to the translation of vector graphics into arithmetic displays, light is constantly disciplined to human purposes. In the form of fibre optics, light is now the infrastructure of all our media; in urban plazas and handheld devices, screens have become ubiquitous, and also standardised. This collection addresses how this occurred, what it means, and how artists, curators and engineers confront and challenge the constraints of increasingly normalised digital visual media. While various art pieces and other content are considered throughout the collection, the focus is specifically on what such pieces suggest about the intersection of technique and technology. Including accounts by prominent artists and professionals, the collection emphasises the centrality of use and experimentation in the shaping of technological platforms. Indeed, a recurring theme is how techniques of previous media become technologies, inscribed in both digital software and hardware. Contributions include considerations of image-oriented software and file formats; screen technologies; projection and urban screen surfaces; histories of computer graphics, 2D and 3D image editing software, photography and cinematic art; and transformations of light-based art resulting from the distributed architectures of the internet and the logic of the database. Digital Light brings together high profile figures in diverse but increasingly convergent fields, from academy award-winner and co-founder of Pixar, Alvy Ray Smith to feminist philosopher Cathryn Vasseleu. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

The ICC/ASHRAE 700-2015 National Green Building Standard(TM) (NGBS) has been approved by the American National Standards Institute for all types of sustainable residential construction. A collaborative effort of the International Code Council, ASHRAE and the National Association of Home Builders, NGBS outlines a variety of green practices that can be incorporated into new homes and multifamily buildings, as well as hotels, dormitories and land developments. The Standard also delivers stand-alone chapters for both home remodeling and additions and renovations of multifamily buildings. The green practices address site and lot design, preparation and development; resource, energy and water efficiency; indoor environmental quality; and operation, maintenance and building owner education. Four levels--Bronze, Silver, Gold and Emerald--enable residential professionals to integrate sustainability and high performance at a level most appropriate for their businesses and specific housing markets. Changes for the 2015 Edition The 2015 edition incorporates changes that better align the NGBS with the I-codes, expands the application of innovative practices and builds upon years of building and certifying to NGBS. Some of the more notable updates include: - Substantial revisions to the Energy Efficiency chapter, which now has more stringent rating levels based upon whole-house energy savings that are above the 2015 International Energy Conservation Code. - A comprehensive update of the exterior and interior lighting provisions including common areas in multifamily building. - Mandatory installation of carbon monoxide alarms for all buildings, regardless of level of certification or local code. - Revamped stormwater management options that encourage low-impact development practices. - Greater emphasis on and recognition of multi-modal transportation options including bicycle parking, pedestrian connectivity, proximity to transit and electric-vehicle charging. - New references in the Resource Efficiency chapter for Environmental Product Declarations for both specific and industry-wide products. This latest edition includes everything needed to design, construct or remodel any residential project to the most current sustainable and green building criteria available - all under one roof!

Based on the successful Baby Owner's Manual, The Baby Owner's Maintenance Log presents a refreshing alternative to traditional sugar-sweet baby journals. Hip parents can record all major milestones and measurements in these pages, including the arrival of the unit, fuel preferences and speech activation. Spiral binding, hilarious illustrations and a bound-in envelope for keepsakes make this guided journal a great shower gift.

From the Surveill., Epidem., & End Results (SEER) Prog. based at the Nat. Cancer Inst. Intended as a coding manual beginning with cases diagnosed from Jan. 1, 2001 rather than a staging guide. Each anatomic site in the Topography Sect. of the Internat. Class. of Disease for Oncology -- 3rd Ed. (ICD-0-3) has a corresponding summary staging scheme. Certain specific histologic types also have specific staging schemes. In some cases, sites which previously had separate guides (such as the segments of the colon) have a single staging scheme (colon), whereas some sites which previously

had a single guide (e.g., larynx) have separate schemes for each sub-site of the larynx.

Composting is increasingly used as a recycling technology for organic wastes. Knowledge on the composition and activities of compost microbial communities has so far been based on traditional methods. New molecular and physiological tools now offer new insights into the "black box" of decaying material. An unforeseen diversity of microorganisms are involved in composting, opening up an enormous potential for future process and product improvements. In this book, the views of scientists, engineers and end-users on compost production, process optimisation, standardisation and product application are presented.

The M16 was first introduced in 1958 and was revolutionary for its time as it was made of lightweight materials including special aluminum and plastics. It was first adopted by US Special Forces and airborne troops in 1962 before it was issued to Army and Marine units serving in Vietnam. Its use spread throughout the following decades and a number of variants including submachine and carbine versions were also fielded. As a result it is now amongst the three most used combat cartridges in the world while over 10 million M16s and variants have been produced making it one of the most successful American handheld weapons in history. But despite its undeniable success the M16 is not without its detractors. Indeed, the "black rifle", as it is known, is one of the most controversial rifles ever introduced with a long history of design defects, ruggedness issues, cleaning difficulties and reliability problems leading to endless technical refinements. This volume provides a technical history of the M16 and the struggle to perfect it together with an assessment of its impact on the battlefield drawing on over a decade's combat experience with the rifle.

A dynamic, all-inclusive overview of the field of health physics If it's an important topic in the field of health physics, you'll find it in this trusted text . . . in sections on physical principles, atomic and nuclear structure, radioactivity, biological effects of radiation, and instrumentation. This one-of-a-kind guide spans the entire scope of the field and offers a problem-solving approach that will serve you throughout your career. Features: A thorough overview of need-to-know topics, from a review of physical principles to a useful look at the interaction of radiation with matter Chapter-ending practice problems to solidify your grasp of health physics topics and their real-world application Essential background material on quantitative risk assessment for health-threatening radiation dangers Authoritative radiation safety and environmental health coverage that supports the International Commission on Radiological Protection's standards for specific populations High-yield appendices to expand your comprehension of chapter material: Values of Some Useful Constants, Table of the Elements, The Reference Person, Specific Absorbed Fraction of Photon Energy, and Total Mass Attenuation Coefficients NEW! Essential coverage of non-ionizing radiation-laser and microwaves, computer use in dose calculation, and dose limit recommendations

If you can build websites with CSS and JavaScript, this book takes you to the next level—creating dynamic, database-driven websites with PHP and MySQL. Learn how to build a database, manage your content, and interact with users. With step-by-step tutorials, this completely revised edition gets you started with expanded coverage of the basics and takes you deeper into the world of server-side programming. The important stuff you need to know: Get up to speed quickly. Learn how to install PHP and MySQL, and get them running on both your computer and a remote server. Gain new techniques. Take advantage of the all-new chapter on integrating PHP with HTML web pages. Manage your content. Use the file system to access user data, including images and other binary files. Make it dynamic. Create pages that change with each new viewing. Build a good database. Use MySQL to store user information and other data. Keep your site working. Master the tools for fixing things that go wrong. Control operations. Create an administrative interface to oversee your site.

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