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Chemical Engineering Design 6th World Congress of Chemical Engineering Proceedings Chemical Engineering: Visions of the World Chemical Engineering Coulson & Richardson's Chemical Engineering: Fluid flow, heat transfer, and mass transfer (6th ed.) Chemical Engineering Design Chemical Engineering Chemical Engineering for Chemists Basic Principles and Calculations in Chemical Engineering Introduction to Chemical Engineering 6th Italian Conference on Chemical and Process Engineering Chemical Engineering Basic Chemical Thermodynamics Elements of Chemical Reaction Engineering, 6th Edition The Expanding World of Chemical Engineering Introduction to Chemical Engineering Chemical Engineering Design Project Chemical Engineering Design Chemical Engineering . Volume 6 Concepts of Chemical Engineering for Chemists (Second Edition) Engineering Chemistry Chemical Engineering Design Advances in Chemical Engineering Introduction to Chemical Engineering Introduction to Chemical Engineering Introduction to Chemical Engineering Handbook of Chemical Engineering Calculations Unit Operations of Chemical Engineering Chemical Engineering Design and Analysis Chemical Engineering Terminology Open-Ended Problems Albright's Chemical Engineering Handbook Computer Methods in Chemical Engineering Rules of Thumb for Chemical Engineers Introduction to Chemical Engineering Thermodynamics Principles of Chemical Engineering Processes Chemical Engineering Design and Analysis MATHEMATICAL METHODS IN CHEMICAL ENGINEERING Chemical Engineering in the Pharmaceutical Industry Concepts of Chemical Engineering 4 Chemists

Chemical Engineering Design 2019-05-26 chemical engineering design si edition is one of the best known and most widely used textbooks available for students of chemical engineering the enduring hallmarks of this classic book are its scope and practical emphasis which make it particularly popular with instructors and students who appreciate its relevance and clarity this new edition provides coverage of the latest aspects of process design operations safety loss prevention equipment selection and much more including updates on plant and equipment costs regulations and technical standards includes new content covering food pharmaceutical and biological processes and the unit operations commonly used features expanded coverage on the design of reactors provides updates on plant and equipment costs regulations and technical standards integrates coverage with honeywell s unisim software for process design and simulation includes online access to engineering s cleopatra cost estimating software

6th World Congress of Chemical Engineering Proceedings 2001 this book presents six visionary essays on the past present and future of the chemical and process industries together with a critical commentary our world is changing fast and the visions explore the implications for business and academic institutions and for the professionals working in them the visions were written and brought together for the 6th world congress of chemical engineering in melbourne australia in september 2001 identifies trends in the chemicals business environment and their consequences discusses a wide variety of views about business and technology describes the impact of newly developing technologies

Chemical Engineering: Visions of the World 2003-05-21 chemical engineering is the field of applied science that employs physical chemical and biological rate processes for the betterment of humanity this opening sentence of chapter 1 has been the underlying paradigm of chemical engineering chemical engineering an introduction is designed to enable the student to explore the activities in which a modern chemical engineer is involved by focusing on mass and energy balances in liquid phase processes problems explored include the design of a feedback level controller membrane separation hemodialysis optimal design of a process with chemical reaction and separation washout in a bioreactor kinetic and mass transfer limits in a two phase reactor and the use of the membrane reactor to overcome equilibrium limits on conversion mathematics is employed as a language at the most elementary level professor morton m denn incorporates design meaningfully the design and analysis problems are realistic in format and scope

Chemical Engineering 2011-09-30 chemical engineering design is one of the best known and widely adopted texts available for students of chemical engineering it deals with the application of chemical engineering principles to the design of chemical processes and equipment revised throughout the fourth edition covers the latest aspects of process design

operations safety loss prevention and equipment selection among others comprehensive and detailed the book is supported by problems and selected solutions in addition the book is widely used by professionals as a day to day reference best selling chemical engineering text revised to keep pace with the latest chemical industry changes designed to see students through from undergraduate study to professional practice end of chapter exercises and solutions

Coulson & Richardson's Chemical Engineering: Fluid flow, heat transfer, and mass transfer (6th ed.) 1999 richardson et al provide the student of chemical engineering with full worked solutions to the problems posed in chemical engineering volume 2 particle technology and separation processes 5th edition and chemical engineering volume 3 chemical and biochemical reactors process control 3rd edition whilst the main volumes contains illustrative worked examples throughout the text this book contains answers to the more challenging questions posed at the end of each chapter of the main texts these questions are of both a standard and non standard nature and so will prove to be of interest to both academic staff teaching courses in this area and to the keen student chemical engineers in industry who are looking for a standard solution to a real life problem will also find the book of considerable interest contains fully worked solutions to the problems posed in chemical engineering volumes 2 and 3 enables the reader to get the maximum benefit from using volumes 2 and 3 an extremely effective method of learning

Chemical Engineering Design 2005-07-01 provides a thorough understanding of chemical engineering and applied chemistry develops knowledge of the chemical engineering principles needed for both the solution of process problems and the optimization of processes explores how to break down language barriers between chemists and engineers presents a comprehensive approach to understanding the limitations and virtues of an engineering problem solving approach

Chemical Engineering 2012-12-02 over the past decade the field of chemical engineering has broadened significantly encompassing a wide range of subjects however the basic underlying principles have remained the same to help readers keep pace this volume continues to offer a comprehensive introduction to the principles and techniques used in the field of chemical petroleum and environmental engineering as in previous editions author david m himmelblau strives to help readers learn to develop systematic problem solving skills understand what material balance are comprehend energy balances and cope with the complexity of big problems in addition readers are exposed to background information on units and measurements of physical properties basic laws about the behavior of gas liquids and solids and basic mathematical tools

Chemical Engineering for Chemists 1997 the field of chemical engineering is undergoing a global renaissance with new

processes equipment and sources changing literally every day it is a dynamic important area of study and the basis for some of the most lucrative and integral fields of science introduction to chemical engineering offers a comprehensive overview of the concept principles and applications of chemical engineering it explains the distinct chemical engineering knowledge which gave rise to a general purpose technology and broadest engineering field the book serves as a conduit between college education and the real world chemical engineering practice it answers many questions students and young engineers often ask which include how is what i studied in the classroom being applied in the industrial setting what steps do i need to take to become a professional chemical engineer what are the career diversities in chemical engineering and the engineering knowledge required how is chemical engineering design done in real world what are the chemical engineering computer tools and their applications what are the prospects present and future challenges of chemical engineering and so on it also provides the information new chemical engineering hires would need to excel and cross the critical novice engineer stage of their career it is expected that this book will enhance students understanding and performance in the field and the development of the profession worldwide whether a new hire engineer or a veteran in the field this is a must have volume for any chemical engineer s library

Basic Principles and Calculations in Chemical Engineering 1996 an introduction to the art and practice of design as applied to chemical processes and equipment it is intended primarily as a text for chemical engineering students undertaking the design projects that are set as part of undergraduate courses in chemical engineering in the uk and usa it has been written to complement the treatment of chemical engineering fundamentals given in chemical engineering volumes 1 2 and 3 examples are given in each chapter to illustrate the design methods presented

Introduction to Chemical Engineering 2019-10-10 this widely acclaimed text now in its sixth edition and translated into many languages continues to present a clear simple and concise introduction to chemical thermodynamics an examination of equilibrium in the everyday world of mechanical objects provides a starting point for an accessible account of the factors that determine equilibrium in chemical systems this straightforward approach leads students to a thorough understanding of the basic principles of thermodynamics which are then applied to a wide range of physical chemical systems the book also discusses the problems of non ideal solutions and the concept of activity and provides an introduction to the molecular basis of thermodynamics over six editions the views of teachers of the subject and their students have been incorporated reference to the phase rule has been included in this edition and the notation has been revised to conform to current iupac recommendations students taking courses in thermodynamics will continue to find this popular book an excellent

introductory text

6th Italian Conference on Chemical and Process Engineering 2003 the definitive guide to chemical reaction engineering problem solvingwith updated content and more active learning for decades h scott foglers elements of chemical reaction engineering has been the worlds dominant chemical reaction engineering text this sixth edition and integrated site deliver a more compelling active learning experience than ever before using sliders and interactive examples in wolfram python polymath and matlab students can explore reactions and reactors by running realistic simulation experiments writing for todays students fogler provides instant access to information avoids extraneous details and presents novel problems linking theory to practice faculty can flexibly define their courses drawing on updated chapters problems and extensive professional reference shelf web content at diverse levels of difficulty the book thoroughly prepares undergraduates to apply chemical reaction kinetics and physics to the design of chemical reactors and four advanced chapters address graduate level topics including effectiveness factors to support the fields growing emphasis on chemical reactor safety each chapter now ends with a practical safety lesson updates throughout the book reflect current theory and practice and emphasize safety new discussions of molecular simulations and stochastic modeling increased emphasis on alternative energy sources such as solar and biofuels thorough reworking of three chapters on heat effects full chapters on nonideal reactors diffusion limitations and residence time distribution about the companion site umich edu elements 6e index html complete powerpoint slides for lecture notes for chemical reaction engineering classes links to additional software including polymath matlab wolfram mathematica aspentech and comsol interactive learning resources linked to each chapter including learning objectives summary notes modules interactive computer games solved problems faqs additional homework problems and links to learncheme living example problemsunique to this bookthat provide more than 80 interactive simulations allowing students to explore the examples and ask what if questions professional reference shelf which includes advanced content on reactors weighted least squares experimental planning laboratory reactors pharmacokinetics wire gauze reactors trickle bed reactors fluidized bed reactors cvd boat reactors detailed explanations of key d

Chemical Engineering 2013-10-22 this new edition of the expanding world of chemicalengineering provides an overview of recent and future developments in chemical engineering and future aspects in chemical engineering the book is written by leading researchers in various fields of expertise and covers most important topics in chemical engineering the topics covered include computer application material design supercritical fluid technology colloid and powder technology new

equipment bio and medical technology and environmental preservation and remediation this is a valuable book for students at all levels as well as for practitioners in chemical engineering and industry

Basic Chemical Thermodynamics 2013-10-04 this book is an outgrowth of the author s teaching experience of a course on introduction to chemical engineering to the first year chemical engineering students of the indian institute of technology madras the book serves to introduce the students to the role of a chemical engineer in society in addition to the classical industries the role of chemical engineers in several esoteric areas such as semiconductor processing and biomedical engineering is discussed besides highlighting the principles and processes of chemical engineering the book shows how chemical engineering concepts from the basic sciences and economics are used to seek solutions to engineering problems the book is rich in examples of innovative solutions found to problems faced in chemical industry it includes a wide spectrum of topics selected from the industrial interactions of the author it encourages the student to see the similarities in the concepts which govern apparently dissimilar examples it introduces various concepts using both physical and mathematical bases to facilitate the understanding of difficult processes such as the scale up process the book contains several case studies on safety ethics and environ mental issues in chemical process industries

Elements of Chemical Reaction Engineering, 6th Edition 2020 this new edition follows the original format which combines a detailed case study the production of phthalic anhydride with practical advice and comprehensive background information guiding the reader through all major aspects of a chemical engineering design the text includes both the initial technical and economic feasibility study as well as the detailed design stages each aspect of the design is illustrated with material from an award winning student design project the book embodies the learning by doing approach to design the student is directed to appropriate information sources and is encouraged to make decisions at each stage of the design process rather than simply following a design method thoroughly revised updated and expanded the accompanying text includes developments in important areas and many new references

The Expanding World of Chemical Engineering 2019-07-09 chemical engineering design second edition deals with the application of chemical engineering principles to the design of chemical processes and equipment revised throughout this edition has been specifically developed for the u s market it provides the latest us codes and standards including api asme and isa design codes and ansi standards it contains new discussions of conceptual plant design flowsheet development and revamp design extended coverage of capital cost estimation process costing and economics and new chapters on equipment selection reactor design and solids handling processes a rigorous pedagogy assists learning with detailed

worked examples end of chapter exercises plus supporting data and excel spreadsheet calculations plus over 150 patent references for downloading from the companion website extensive instructor resources including 1170 lecture slides and a fully worked solutions manual are available to adopting instructors this text is designed for chemical and biochemical engineering students senior undergraduate year plus appropriate for capstone design courses where taken plus graduates and lecturers tutors and professionals in industry chemical process biochemical pharmaceutical petrochemical sectors new to this edition revised organization into part i process design and part ii plant design the broad themes of part i are flowsheet development economic analysis safety and environmental impact and optimization part ii contains chapters on equipment design and selection that can be used as supplements to a lecture course or as essential references for students or practicing engineers working on design projects new discussion of conceptual plant design flowsheet development and revamp design significantly increased coverage of capital cost estimation process costing and economics new chapters on equipment selection reactor design and solids handling processes new sections on fermentation adsorption membrane separations ion exchange and chromatography increased coverage of batch processing food pharmaceutical and biological processes all equipment chapters in part ii revised and updated with current information updated throughout for latest us codes and standards including api asme and isa design codes and ansi standards additional worked examples and homework problems the most complete and up to date coverage of equipment selection 108 realistic commercial design projects from diverse industries a rigorous pedagogy assists learning with detailed worked examples end of chapter exercises plus supporting data and excel spreadsheet calculations plus over 150 patent references for downloading from the companion website extensive instructor resources 1170 lecture slides plus fully worked solutions manual available to adopting instructors

Introduction to Chemical Engineering 2012-05-09 nothing provided

Chemical Engineering Design Project 2020-08-12 chemical engineering design is one of the best known and most widely adopted texts available for students of chemical engineering it completely covers the standard chemical engineering final year design course and is widely used as a graduate text the hallmarks of this renowned book have always been its scope practical emphasis and closeness to the curriculum that it is written by practicing chemical engineers makes it particularly popular with students who appreciate its relevance and clarity building on this position of strength the fifth edition covers the latest aspects of process design operations safety loss prevention and equipment selection and much more comprehensive in coverage exhaustive in detail and supported by extensive problem sets at the end of each chapter this is

a book that students will want to keep to hand as they enter their professional life the leading chemical engineering design text with over 25 years of established market leadership to back it up an essential resource for the compulsory design project all chemical engineering students take in their final year a complete and trusted teaching and learning package the book offers a broader scope better curriculum coverage more extensive ancillaries and a more student friendly approach at a better price than any of its competitors endorsed by the institution of chemical engineers guaranteeing wide exposure to the academic and professional market in chemical and process engineering

Chemical Engineering Design 2012-01-25 introduction to chemical engineering an accessible introduction to chemical engineering for specialists in adjacent fields chemical engineering plays a vital role in numerous industries including chemical manufacturing oil and gas refining and processing food processing biofuels pharmaceutical manufacturing plastics production and use and new energy recovery and generation technologies many people working in these fields however are nonspecialists management other kinds of engineers mechanical civil electrical software computer safety etc and scientists of all varieties introduction to chemical engineering is an ideal resource for those looking to fill the gaps in their education so that they can fully engage with matters relating to chemical engineering based on an introductory course designed to assist chemists becoming familiar with aspects of chemical plants this book examines the fundamentals of chemical processing the book specifically focuses on transport phenomena mixing and stirring chemical reactors and separation processes readers will also find a hands on approach to the material with many practical examples calculus is the only type of advanced mathematics used a wide range of unit operations including distillation liquid extraction absorption of gases membrane separation crystallization liquid solid separation drying and gas solid separation introduction to chemical engineering is a great help for chemists biologists physicists and non chemical engineers looking to round out their education for the workplace

Chemical Engineering . Volume 6 1989 provides detailed procedures for performing hundreds of chemical engineering calculations along with fully worked out examples

Concepts of Chemical Engineering for Chemists (Second Edition) 2017 the seventh edition of unit operations of chemical engineering contains new material throughout the textbook and many additional problems however the basic structure general level of treatment and overall length are largely unchanged this is an introductory text written for undergraduates in their junior or senior year who have completed the usual courses in mathematics chemistry physics and an introduction to chemical engineering an elementary knowledge of the above mentioned subjects and energy balances is assumed book

jacket

Engineering Chemistry 1928 students taking their first chemical engineering course plunge into the nuts and bolts of mass and energy balances and often miss the broad view of what chemical engineers do this 1998 text offers a well paced introduction to chemical engineering students are first introduced to the fundamental steps in design and three methods of analysis mathematical modeling graphical methods and dimensional analysis the book then describes how to apply engineering skills such as how to simplify calculations through assumptions and approximations how to verify calculations significant figures spreadsheets graphing standard semi log and log log and how to use data maps in addition the book teaches engineering skills through the design and analysis of chemical processes and process units in order to assess product quality economics safety and environmental impact this text will help undergraduate students in chemical engineering develop engineering skills early in their studies lecturer s solution manual available from the publisher on request

Chemical Engineering Design 2009-05-15 this is a unique book with nearly 1000 problems and 50 case studies on open ended problems in every key topic in chemical engineering that helps to better prepare chemical engineers for the future the term open ended problem basically describes an approach to the solution of a problem and or situation for which there is not a unique solution the introduction to the general subject of open ended problems is followed by 22 chapters each of which addresses a traditional chemical engineering or chemical engineering related topic each of these chapters contain a brief overview of the subject matter of concern e g thermodynamics which is followed by sample open ended problems that have been solved by the authors employing one of the many possible approaches to the solutions this is then followed by approximately 40 45 open ended problems with no solutions although many of the authors solutions are available for those who adopt the book for classroom or training purposes a reference section is included with the chapter s contents term projects comprised of 12 additional chapter topics complement the presentation this book provides academic industrial and research personnel with the material that covers the principles and applications of open ended chemical engineering problems in a thorough and clear manner upon completion of the text the reader should have acquired not only a working knowledge of the principles of chemical engineering but also and more importantly experience in solving open ended problems what many educators have learned is that the applications and implications of open ended problems are not only changing professions but also are moving so fast that many have not yet grasped their tremendous impact the book drives home that the open ended approach will revolutionize the way chemical engineers will need to operate in the future

Advances in Chemical Engineering 1981 taking greater advantage of powerful computing capabilities over the last several years the development of fundamental information and new models has led to major advances in nearly every aspect of chemical engineering albright s chemical engineering handbook represents a reliable source of updated methods applications and fundamental concepts that will continue to play a significant role in driving new research and improving plant design and operations well rounded concise and practical by design this handbook collects valuable insight from an exceptional diversity of leaders in their respective specialties each chapter provides a clear review of basic information case examples and references to additional more in depth information they explain essential principles calculations and issues relating to topics including reaction engineering process control and design waste disposal and electrochemical and biochemical engineering the final chapters cover aspects of patents and intellectual property practical communication and ethical considerations that are most relevant to engineers from fundamentals to plant operations albright s chemical engineering handbook offers a thorough yet succinct guide to day to day methods and calculations used in chemical engineering applications this handbook will serve the needs of practicing professionals as well as students preparing to enter the field

Introduction to Chemical Engineering 2023-09-13 while various software packages have become essential for performing unit operations and other kinds of processes in chemical engineering the fundamental theory and methods of calculation must also be understood to effectively test the validity of these packages and verify the results computer methods in chemical engineering second edition presents the most used simulation software along with the theory involved it covers chemical engineering thermodynamics fluid mechanics material and energy balances mass transfer operations reactor design and computer applications in chemical engineering the highly anticipated second edition is thoroughly updated to reflect the latest updates in the featured software and has added a focus on real reactors introduces aveva process simulation software and includes new and updated appendixes through this book students will learn the following what chemical engineers do the functions and theoretical background of basic chemical engineering unit operations how to simulate chemical processes using software packages how to size chemical process units manually and with software how to fit experimental data how to solve linear and nonlinear algebraic equations as well as ordinary differential equations along with exercises and references each chapter contains a theoretical description of process units followed by numerous examples that are solved step by step via hand calculation and computer simulation using hysys unisim pro ii aspen plus and superpro designer adhering to the accreditation board for engineering and technology abet criteria the book gives

chemical engineering students and professionals the tools to solve real problems involving thermodynamics and fluid phase equilibria fluid flow material and energy balances heat exchangers reactor design distillation absorption and liquid extraction this new edition includes many examples simulated by recent software packages in addition fluid package information is introduced in correlation to the numerical problems in book an updated solutions manual and powerpoint slides are also provided in addition to new video guides and unisim program files

Introduction to Chemical Engineering 1955 annotation a handbook for chemical and process engineers who need a solution to their practical on the job problems it solves process design problems quickly accurately and safely with hundreds of techniques shortcuts and calculations

Introduction to Chemical Engineering 1984 presents comprehensive coverage of the subject of thermodynamics from a chemical engineering viewpoint this text provides an exposition of the principles of thermodynamics and details their application to chemical processes it contains problems examples and illustrations to help students understand complex concepts

Handbook of Chemical Engineering Calculations 2003-10-21 principles of chemical engineering processes material and energy balances introduces the basic principles and calculation techniques used in the field of chemical engineering providing a solid understanding of the fundamentals of the application of material and energy balances packed with illustrative examples and case studies this book discusses problems in material and energy balances related to chemical reactors explains the concepts of dimensions units psychrometry steam properties and conservation of mass and energy demonstrates how matlab and simulink can be used to solve complicated problems of material and energy balances shows how to solve steady state and transient mass and energy balance problems involving multiple unit processes and recycle bypass and purge streams develops quantitative problem solving skills specifically the ability to think quantitatively including numbers and units the ability to translate words into diagrams and mathematical expressions the ability to use common sense to interpret vague and ambiguous language in problem statements and the ability to make judicious use of approximations and reasonable assumptions to simplify problems this second edition has been updated based upon feedback from professors and students it features a new chapter related to single and multiphase systems and contains additional solved examples and homework problems educational software downloadable exercises and a solutions manual are available with qualifying course adoption

Unit Operations of Chemical Engineering 2001 the go to guide to learn the principles and practices of design and

analysis in chemical engineering

Chemical Engineering Design and Analysis 1998-08-28 this comprehensive well organized and easy to read book presents concepts in a unified framework to establish a similarity in the methods of solutions and analysis of such diverse systems as algebraic equations ordinary differential equations and partial differential equations the distin guishing feature of the book is the clear focus on analytical methods of solving equations the text explains how the methods meant to elucidate linear problems can be extended to analyse nonlinear problems the book also discusses in detail modern concepts like bifurcation theory and chaos to attract engineering students to applied mathematics the author explains the concepts in a clear concise and straightforward manner with the help of examples and analysis the significance of analytical methods and concepts for the engineer scientist interested in numerical applications is clearly brought out intended as a textbook for the postgraduate students in engineering the book could also be of great help to the research students

Chemical Engineering Terminology 2015 this book deals with various unique elements in the drug development process within chemical engineering science and pharmaceutical r d the book is intended to be used as a professional reference and potentially as a text book reference in pharmaceutical engineering and pharmaceutical sciences many of the experimental methods related to pharmaceutical process development are learned on the job this book is intended to provide many of those important concepts that r d engineers and manufacturing engineers should know and be familiar if they are going to be successful in the pharmaceutical industry these include basic analytics for quantitation of reaction components often skipped in che reaction engineering and kinetics books in addition chemical engineering in the pharmaceutical industry introduces contemporary methods of data analysis for kinetic modeling and extends these concepts into quality by design strategies for regulatory filings for the current professionals in silico process modeling tools that streamline experimental screening approaches is also new and presented here continuous flow processing although mainstream for che is unique in this context given the range of scales and the complex economics associated with transforming existing batch plant capacity the book will be split into four distinct yet related parts these parts will address the fundamentals of analytical techniques for engineers thermodynamic modeling and finally provides an appendix with common engineering tools and examples of their applications

Open-Ended Problems 2015-04-13 based on the popular course of the same title concepts of chemical engineering 4 chemists outlines the basic aspects of chemical engineering for chemistry professionals it clarifies the terminology used and explains the systems methodology approach to process design and operation for chemists with limited chemical

engineering knowledge the book provides practical insights into all areas of chemical engineering including such aspects as pump design and the measurement of key process variables the calculation of design parameters such as heat and mass transfer coefficients and reaction scale up are also discussed as well as hazard analysis project economics and process control designed as a reference guide it is fully illustrated and includes worked examples as well as extensive reference and bibliography sections concepts of chemical engineering 4 chemists is ideal for those who either work alongside chemical engineers or who are embarking on chemical engineering type projects

Albright's Chemical Engineering Handbook 2008-11-20

Computer Methods in Chemical Engineering 2021-11-23

Rules of Thumb for Chemical Engineers 2012-06-18

Introduction to Chemical Engineering Thermodynamics 2001

Principles of Chemical Engineering Processes 2014-11-10

Chemical Engineering Design and Analysis 2019-01-24

MATHEMATICAL METHODS IN CHEMICAL ENGINEERING 1998-01-01

Chemical Engineering in the Pharmaceutical Industry 2011-03-10

Concepts of Chemical Engineering 4 Chemists 2007-10-31

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