Introductory Chemical Engineering Thermodynamics 2nd Edition Solutions Manual

Introduction to Engineering ThermodynamicsThermodynamicsThermodynamics. 2nd editionAdvanced Thermodynamics Engineering, Second EditionThermodynamics and Heat Power, Ninth EditionConcise Chemical Thermodynamics, 2nd EditionThermodynamics and Heat Power, Eighth EditionINTRODUCTION TO CHEMICAL ENGINEERING THERMODYNAMICS, SECOND EDITIONChemical Thermodynamics: Reversible And Irreversible Thermodynamics (Second Edition).ThermodynamicsThermodynamics in Materials ScienceThermodynamicsChemical Engineering Computation with MATLAB®Thermodynamics. 2nd EdThe Thermodynamic Theory and Engineering Design of SuperCarnot Heat EnginesThermodynamics and Energy ConversionIntroduction to Engineering Thermodynamics 2nd Edition with Fundamentals 6th Edition Work Example Supp SetOxide SurfacesThermodynamics for EngineersCatalogue of the Science library in the South Kensington museum Richard E. Sonntag Arthur Shavit G. N. Lewis Kalyan Annamalai Irving Granet A.P.H. Peters Irving Granet GOPINATH HALDER Byung Chan Eu Robert DeHoff Arthur Shavit Yeong Koo Yeo William Craig REYNOLDS Wayne Arthur Proell Henning Struchtrup Richard E. Sonntag James A. Wingrave Kaufui Vincent Wong Science museum libr

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Second Edition Thermodynamics and Heat Power, Ninth Edition Concise Chemical Thermodynamics, 2nd Edition Thermodynamics and Heat Power, Eighth Edition INTRODUCTION TO CHEMICAL ENGINEERING THERMODYNAMICS, SECOND EDITION Chemical Thermodynamics: Reversible And Irreversible Thermodynamics (Second Edition). Thermodynamics Thermodynamics in Materials Science Thermodynamics Chemical Engineering Computation with MATLAB® Thermodynamics. 2nd Ed The Thermodynamic Theory and Engineering Design of SuperCarnot Heat Engines Thermodynamics and Energy Conversion Introduction to Engineering Thermodynamics 2nd Edition with Fundamentals 6th Edition Work Example Supp Set Oxide Surfaces Thermodynamics for Engineers Catalogue of the Science library in the South Kensington museum *Richard E. Sonntag Arthur Shavit G. N. Lewis Kalyan Annamalai Irving Granet A.P.H. Peters Irving Granet GOPINATH HALDER Byung Chan Eu Robert DeHoff Arthur Shavit Yeong Koo Yeo William Craig REYNOLDS Wayne Arthur Proell Henning Struchtrup Richard E. Sonntag James A. Wingrave Kaufui Vincent Wong Science museum libr*

a focused look at the principles and applications of thermodynamics offering a concise highly focused approach sonntag and borgnakke s introduction to engineering thermodynamics 2nd edition is ideally suited for a one semester course or the first course in a thermal fluid sciences sequence based on their highly successful text fundamentals of thermodynamics introduction to engineering thermodynamics 2nd edition covers both fundamental principles and practical applications in a more student friendly format the authors guide students from readily measured thermodynamic properties through basic concepts like internal energy entropy and the first and second laws up through brief coverage of psychrometrics power cycles and an introduction to combustion and heat transfer highlights of the second edition new chapter on chemical reactions revised coverage of heat transfer with a stronger emphasis on applications new concept checkpoints which allow

STUDENTS TO TEST THEMSELVES ON HOW WELL THEY UNDERSTAND CONCEPTS JUST PRESENTED HOW TO SECTIONS AT THE END OF MOST CHAPTERS WHICH ANSWER COMMONLY ASKED QUESTIONS REVISED EXAMPLES ILLUSTRATIONS AND HOMEWORK PROBLEMS AS WELL AS A LARGE NUMBER OF NEW PROBLEMS THERMONET ONLINE TUTORIALS WITH ACCOMPANYING GRAPHICS ANIMATIONS AND VIDEO CLIPS AVAILABLE ONLINE WITH THE REGISTRATION CODE IN THIS TEXT COMPUTER AIDED THERMODYNAMIC TABLES 2 SOFTWARE CATT2 BY CLAUS BORGNAKKE PROVIDES AUTOMATED TABLE LOOKUP AND INTERPOLATION OF PROPERTY DATA FOR A WIDE VARIETY OF SUBSTANCES AVAILABLE FOR DOWNLOAD ON THE TEXT S WEBSITE

THERE ARE MANY THERMODYNAMICS TEXTS ON THE MARKET YET MOST PROVIDE A PRESENTATION THAT IS AT A LEVEL TOO HIGH FOR THOSE NEW TO THE FIELD THIS SECOND EDITION OF THERMODYNAMICS CONTINUES TO PROVIDE AN ACCESSIBLE INTRODUCTION TO THERMODYNAMICS WHICH MAINTAINS AN APPROPRIATE RIGOR TO PREPARE NEWCOMERS FOR SUBSEQUENT MORE ADVANCED TOPICS THE BOOK P

ADVANCED THERMODYNAMICS ENGINEERING SECOND EDITION IS DESIGNED FOR READERS WHO NEED TO UNDERSTAND AND APPLY THE ENGINEERING PHYSICS OF THERMODYNAMIC CONCEPTS IT EMPLOYS A SELF TEACHING FORMAT THAT REINFORCES PRESENTATION OF CRITICAL CONCEPTS MATHEMATICAL RELATIONSHIPS AND EQUATIONS WITH CONCRETE PHYSICAL EXAMPLES AND EXPLANATIONS OF APPLICATIONS TO HELP READERS APPLY PRINCIPLES TO THEIR OWN REAL WORLD PROBLEMS LESS MATHEMATICAL THEORETICAL DERIVATIONS MORE FOCUS ON PRACTICAL APPLICATION BECAUSE BOTH STUDENTS AND PROFESSIONALS MUST GRASP THEORY ALMOST IMMEDIATELY IN THIS EVER CHANGING ELECTRONIC ERA THIS BOOK NOW COMPLETELY IN DECIMAL OUTLINE FORMAT USES A PHENOMENOLOGICAL APPROACH TO PROBLEMS MAKING ADVANCED CONCEPTS EASIER TO UNDERSTAND AFTER A DECADE TEACHING ADVANCED THERMODYNAMICS THE AUTHORS INFUSE THEIR OWN STYLE AND TAILOR CONTENT BASED ON THEIR OBSERVATIONS AS PROFESSIONAL ENGINEERS AS WELL AS FEEDBACK FROM THEIR STUDENTS CONDENSING MORE ESOTERIC MATERIAL TO FOCUS ON PRACTICAL USES FOR THIS CONTINUOUSLY EVOLVING AREA OF SCIENCE THIS BOOK IS FILLED WITH REVISED

PROBLEMS AND EXTENSIVE TABLES ON THERMODYNAMIC PROPERTIES AND OTHER USEFUL INFORMATION THE AUTHORS INCLUDE AN ABUNDANCE OF EXAMPLES FIGURES AND ILLUSTRATIONS TO CLARIFY PRESENTED IDEAS AND ADDITIONAL MATERIAL AND SOFTWARE TOOLS ARE AVAILABLE FOR DOWNLOAD THE RESULT IS A POWERFUL PRACTICAL INSTRUCTIONAL TOOL THAT GIVES READERS A STRONG CONCEPTUAL FOUNDATION ON WHICH TO BUILD A SOLID FUNCTIONAL UNDERSTANDING OF THERMODYNAMICS ENGINEERING

THE NINTH EDITION OF THERMODYNAMICS AND HEAT POWER CONTAINS A REVISED SEQUENCE OF THERMODYNAMICS CONCEPTS INCLUDING PHYSICAL PROPERTIES PROCESSES AND ENERGY SYSTEMS TO ENABLE THE ATTAINMENT OF LEARNING OUTCOMES BY ENGINEERING AND ENGINEERING TECHNOLOGY STUDENTS TAKING AN INTRODUCTORY COURSE IN THERMODYNAMICS BUILT AROUND AN EASILY UNDERSTANDABLE APPROACH THIS UPDATED TEXT FOCUSES ON THERMODYNAMICS FUNDAMENTALS AND EXPLORES RENEWABLE ENERGY GENERATION IC ENGINES POWER PLANTS HVAC AND APPLIED HEAT TRANSFER ENERGY HEAT AND WORK ARE EXAMINED IN RELATION TO THERMODYNAMICS CYCLES AND THE EFFECTS OF FLUID PROPERTIES ON SYSTEM PERFORMANCE ARE EXPLAINED NUMEROUS STEP BY STEP EXAMPLES AND PROBLEMS MAKE THIS TEXT IDEAL FOR UNDERGRADUATE STUDENTS THIS NEW EDITION INTRODUCES PHYSICS BASED MATHEMATICAL FORMULATIONS AND EXAMPLES IN A WAY THAT ENABLES PROBLEM SOLVING CONTAINS EXTENSIVE LEARNING FEATURES WITHIN EACH CHAPTER AND BASIC COMPUTATIONAL EXERCISES FOR IN CLASS AND LABORATORY ACTIVITIES INCLUDES A STRAIGHTFORWARD REVIEW OF APPLICABLE CALCULUS CONCEPTS USES EVERYDAY EXAMPLES TO FOSTER A BETTER UNDERSTANDING OF THERMAL SCIENCE AND ENGINEERING CONCEPTS THIS BOOK IS SUITABLE FOR UNDERGRADUATE STUDENTS IN ENGINEERING AND ENGINEERING TECHNOLOGY

THE FIRST EDITION OF CONCISE CHEMICAL THERMODYNAMICS PROVED TO BE A VERY POPULAR INTRODUCTION TO A SUBJECT MANY UNDERGRADUATE STUDENTS PERCEIVE AS A DIFFICULT TOPIC BECAUSE IT PRESENTED THERMODYNAMICS WITH PRACTICAL CHEMICAL EXAMPLES IN A WAY THAT USED LITTLE MATHEMATICS IN THIS SECOND EDITION THE TEXT HAS BEEN CAREFULLY REVISED TO ENSURE THE SAME APPROACH

IS MAINTAINED STUDENTS ARE LED TO AN UNDERSTANDING OF GIBBS FREE ENERGY EARLY ON AND THE CONCEPT IS DEMONSTRATED IN SEVERAL DIFFERENT FIELDS THE BOOK INCLUDES DISCUSSIONS OF EXPERIMENTAL EQUILIBRIUM DATA AN INTRODUCTION TO ELECTROCHEMISTRY A BRIEF SURVEY OF ELLINGHAM DIAGRAMS AND A TREATMENT OF ENTROPY WITHOUT REFERENCE TO THE CARNOT CYCLE A NEW CHAPTER ON COMPUTER BASED METHODS IN THERMODYNAMICS HAS BEEN ADDED TO REFLECT CURRENT TECHNOLOGICAL TRENDS AND PRACTICES THERMODYNAMIC DATA HAS BEEN REVISED IN LIGHT OF INFORMATION PROVIDED BY THE WORK OF THE SCIENTIFIC GROUP THERMODATA EUROPE TO ENSURE THAT THE SYMBOLS AND UNITS REFLECT THE LATEST IUPAC RULES IN ADDITION THE PROBLEMS AND EXAMPLES HAVE BEEN UPDATED REPLACED AND AMPLIFIED TO REFLECT CURRENT UNDERSTANDING AND CONCERNS UNDERGRADUATE STUDENTS OF CHEMISTRY WILL FIND THIS AN IDEAL INTRODUCTION TO CHEMICAL THERMODYNAMICS

BUILDING ON THE LAST EDITION DEDICATED TO EXPLORING ALTERNATIVES TO COAL AND OIL BASED ENERGY CONVERSION METHODS AND PUBLISHED MORE THAN TEN YEARS AGO THERMODYNAMICS AND HEAT POWER EIGHTH EDITION UPDATES THE STATUS OF EXISTING DIRECT ENERGY CONVERSION METHODS AS DESCRIBED IN THE PREVIOUS WORK OFFERING A SYSTEMS APPROACH TO THE ANALYSIS OF ENERGY CONVERSION METHODS THIS TEXT FOCUSES ON THE FUNDAMENTALS INVOLVED IN THERMODYNAMICS AND FURTHER EXPLORES CONCEPTS IN THE AREAS OF IDEAL GAS FLOW ENGINE ANALYSIS AIR CONDITIONING AND HEAT TRANSFER IT EXAMINES ENERGY HEAT AND WORK IN RELATION TO THERMODYNAMICS AND ALSO EXPLORES THE PROPERTIES OF TEMPERATURE AND PRESSURES THE BOOK EMPHASIZES PRACTICAL MECHANICAL SYSTEMS AND INCORPORATES PROBLEMS AT THE END OF THE CHAPTERS TO ADVANCE THE APPLICATION OF THE MATERIAL WHAT S NEW IN THE EIGHTH EDITION AN EMPHASIS ON A SYSTEMS APPROACH TO PROBLEMS MORE DISCUSSION OF THE TYPES OF HEAT AND OF ENTROPY ADDED EXPLANATIONS FOR UNDERSTANDING POUND MASS AND THE MOLE ANALYSIS OF STEADY FLOW GAS PROCESSES REPLACING THE COMPRESSIBLE FLOW SECTION THE CONCEPT OF PADDLE WORK TO ILLUSTRATE HOW FRICTIONAL EFFECTS CAN BE ANALYZED A CLEARER

DISCUSSION OF THE PSYCHROMETRIC CHART AND ITS USAGE IN ANALYZING AIR CONDITIONING SYSTEMS UPDATES OF THE STATUS OF DIRECT ENERGY CONVERSION SYSTEMS A DESCRIPTION OF HOW THE COOLING TOWER IS UTILIZED IN HIGH RISE BUILDINGS PRACTICAL AUTOMOTIVE ENGINE ANALYSIS EXPANDED BRAYTON CYCLE ANALYSIS INCLUDING INTERCOOLING REHEAT AND REGENERATION AND THEIR EFFECT ON GAS TURBINE EFFICIENCY A DESCRIPTION OF FINS AND HOW THEY IMPROVE HEAT TRANSFER RATES ADDED ILLUSTRATIVE PROBLEMS AND NEW HOMEWORK PROBLEMS AVAILABILITY OF A PUBLISHER S WEBSITE FOR FLUID PROPERTIES AND OTHER REFERENCE MATERIALS PROPERTIES OF THE LATEST IN COMMERCIAL REFRIGERANTS THIS TEXT PRESENTS AN UNDERSTANDING OF BASIC CONCEPTS ON THE SUBJECT OF THERMODYNAMICS AND IS A DEFINITIVE RESOURCE FOR UNDERGRADUATE STUDENTS IN ENGINEERING PROGRAMS MOST SPECIFICALLY STUDENTS STUDYING ENGINEERING TECHNOLOGY

THIS BOOK NOW IN ITS SECOND EDITION CONTINUES TO PROVIDE A COMPREHENSIVE INTRODUCTION TO THE PRINCIPLES OF CHEMICAL ENGINEERING THERMODYNAMICS AND ALSO INTRODUCES THE STUDENT TO THE APPLICATION OF PRINCIPLES TO VARIOUS PRACTICAL AREAS THE BOOK EMPHASIZES THE ROLE OF THE FUNDAMENTAL PRINCIPLES OF THERMODYNAMICS IN THE DERIVATION OF SIGNIFICANT RELATIONSHIPS BETWEEN THE VARIOUS THERMODYNAMIC PROPERTIES THE INITIAL CHAPTER PROVIDES AN OVERVIEW OF THE BASIC CONCEPTS AND PROCESSES AND DISCUSSES THE IMPORTANT UNITS AND DIMENSIONS INVOLVED THE ENSUING CHAPTERS IN A LOGICAL PRESENTATION THOROUGHLY COVER THE FIRST AND SECOND LAWS OF THERMODYNAMICS THE HEAT EFFECTS THE THERMODYNAMIC PROPERTIES AND THEIR RELATIONS REFRIGERATION AND LIQUEFACTION PROCESSES AND THE EQUILIBRIA BETWEEN PHASES AND IN CHEMICAL REACTIONS THE BOOK IS SUITABLY ILLUSTRATED WITH A LARGE NUMBER OF VISUALS IN THE SECOND EDITION NEW SECTIONS ON QUASI STATIC PROCESS AND ENTROPY CHANGE IN REVERSIBLE AND IRREVERSIBLE PROCESSES ARE INCLUDED BESIDES NEW SOLVED MODEL QUESTION PAPER AND SEVERAL NEW MULTIPLE CHOICE QUESTIONS ARE ALSO ADDED THAT HELP DEVELOP THE STUDENTS ABILITY AND CONFIDENCE IN THE APPLICATION OF THE UNDERLYING CONCEPTS PRIMARILY

intended for the undergraduate students of chemical engineering and other related engineering disciplines such as polymer petroleum and pharmaceutical engineering the book will also be useful for the postgraduate students of the subject as well as professionals in the relevant fields

this book enables the reader to learn in a single volume equilibrium and nonequilibrium thermodynamics as well as generalized forms of hydrodynamics for linear and nonlinear processes applied to various hydrodynamic flow processes including chemical oscillation phenomena and pattern formations shock wave phenomena sound wave propagations and liesegang pattern formation amongst others chemical thermodynamics introduces advanced undergraduate students and graduate students to the fundamental ideas and notions of the first and second laws of thermodynamics by seamlessly combining equilibrium and nonequilibrium thermodynamics in a unicameral viewpoint based on the first and second law of thermodynamics part i of the book discusses equilibrium thermodynamics in historical deference covering topics generally dealt with in traditional equilibrium thermodynamics in part ii the concept of entropy for reversible processes is extended and developed for thermodynamics of irreversible processes by using the concept of calortropy heat evolution so that the mathematical theory of macroscopic processes in matter including a generalized form of hydrodynamics is ensured to remain consistent with the thermodynamic laws

thermodynamics in materials science second edition is a clear presentation of how thermodynamic data is used to predict the behavior of a wide range of materials a crucial component in the decision making process for many materials science and engineering applications this primary textbook accentuates the integration of principles strategies a

THERE ARE MANY THERMODYNAMICS TEXTS ON THE MARKET YET MOST PROVIDE A PRESENTATION THAT IS AT A LEVEL TOO HIGH FOR THOSE NEW TO THE FIELD THIS SECOND EDITION OF THERMODYNAMICS CONTINUES TO PROVIDE AN ACCESSIBLE INTRODUCTION TO THERMODYNAMICS WHICH MAINTAINS AN APPROPRIATE RIGOR TO PREPARE NEWCOMERS FOR SUBSEQUENT MORE ADVANCED TOPICS THE BOOK PRESENTS A LOGICAL METHODOLOGY FOR SOLVING PROBLEMS IN THE CONTEXT OF CONSERVATION LAWS AND PROPERTY TABLES OR EQUATIONS THE AUTHORS ELUCIDATE THE TERMS AROUND WHICH THERMODYNAMICS HAS HISTORICALLY DEVELOPED SUCH AS WORK HEAT TEMPERATURE ENERGY AND ENTROPY USING A PEDAGOGICAL APPROACH THAT BUILDS FROM BASIC PRINCIPLES TO LAWS AND EVENTUALLY COROLLARIES OF THE LAWS THE TEXT ENABLES STUDENTS TO THINK IN CLEAR AND CORRECT THERMODYNAMIC TERMS AS WELL AS SOLVE REAL ENGINEERING PROBLEMS FOR THOSE JUST BEGINNING THEIR STUDIES IN THE FIELD THERMODYNAMICS SECOND EDITION PROVIDES THE CORE FUNDAMENTALS IN A RIGOROUS ACCURATE AND ACCESSIBLE PRESENTATION

MOST PROBLEMS ENCOUNTERED IN CHEMICAL ENGINEERING ARE SOPHISTICATED AND INTERDISCIPLINARY THUS IT IS IMPORTANT FOR TODAY S ENGINEERING STUDENTS RESEARCHERS AND PROFESSIONALS TO BE PROFICIENT IN THE USE OF SOFTWARE TOOLS FOR PROBLEM SOLVING MATLAB IS ONE SUCH TOOL THAT IS DISTINGUISHED BY THE ABILITY TO PERFORM CALCULATIONS IN VECTOR MATRIX FORM A LARGE LIBRARY OF BUILT IN FUNCTIONS STRONG STRUCTURAL LANGUAGE AND A RICH SET OF GRAPHICAL VISUALIZATION TOOLS FURTHERMORE MATLAB INTEGRATES COMPUTATIONS VISUALIZATION AND PROGRAMMING IN AN INTUITIVE USER FRIENDLY ENVIRONMENT CHEMICAL ENGINEERING COMPUTATION WITH MATLAB PRESENTS BASIC TO ADVANCED LEVELS OF PROBLEM SOLVING TECHNIQUES USING MATLAB AS THE COMPUTATION ENVIRONMENT THE BOOK PROVIDES EXAMPLES AND PROBLEMS EXTRACTED FROM CORE CHEMICAL ENGINEERING SUBJECT AREAS AND PRESENTS A BASIC INSTRUCTION IN THE USE OF MATLAB FOR PROBLEM SOLVING IT PROVIDES MANY EXAMPLES AND EXERCISES AND EXTENSIVE PROBLEM SOLVING INSTRUCTION AND SOLUTIONS FOR VARIOUS PROBLEMS SOLUTIONS ARE DEVELOPED USING FUNDAMENTAL PRINCIPLES TO CONSTRUCT

MATHEMATICAL MODELS AND AN EQUATION ORIENTED APPROACH IS USED TO GENERATE NUMERICAL RESULTS A WEALTH OF EXAMPLES DEMONSTRATE THE IMPLEMENTATION OF VARIOUS PROBLEM SOLVING APPROACHES AND METHODOLOGIES FOR PROBLEM FORMULATION PROBLEM SOLVING ANALYSIS AND PRESENTATION AS WELL AS VISUALIZATION AND DOCUMENTATION OF RESULTS THIS BOOK ALSO PROVIDES AID WITH ADVANCED PROBLEMS THAT ARE OFTEN ENCOUNTERED IN GRADUATE RESEARCH AND INDUSTRIAL OPERATIONS SUCH AS NONLINEAR REGRESSION PARAMETER ESTIMATION IN DIFFERENTIAL SYSTEMS TWO POINT BOUNDARY VALUE PROBLEMS AND PARTIAL DIFFERENTIAL EQUATIONS AND OPTIMIZATION

THIS COMPREHENSIVE TEXTBOOK COVERS ENGINEERING THERMODYNAMICS FROM BEGINNER TO ADVANCED LEVEL THE PRESENTATION IS CONCISE WITH MATERIAL FOR ABOUT THREE FULL TERM UNIVERSITY COURSES ON 700 PAGES WITHOUT COMPROMISING BREADTH OR DEPTH FIRST AND SECOND LAW OF THERMODYNAMICS ARE DEVELOPED FROM EVERYDAY OBSERVATIONS WITH ACCESSIBLE AND RATIONAL ARGUMENTS THE LAWS OF THERMODYNAMICS ARE APPLIED TO A MULTITUDE OF SYSTEMS AND PROCESSES FROM SIMPLE EQUILIBRATION PROCESSES OVER STEAM AND GAS POWER CYCLES REFRIGERATORS AND HEAT PUMPS TO CHEMICAL SYSTEMS INCLUDING FUEL CELLS ENTROPY AND THE SECOND LAW ARE EMPHASIZED THROUGHOUT WITH FOCUS ON IRREVERSIBLE PROCESSES AND WORK LOSS INSIGHTFUL DEVELOPMENT OF THEORY IS ACCOMPANIED BY DETAILED SOLUTIONS OF EXAMPLE PROBLEMS WHICH TEACH THE REQUIRED TECHNICAL SKILLS WHILE GIVING INSIGHT INTO THE MULTITUDE OF THERMODYNAMIC PROCESSES AND APPLICATIONS ABOUT 550 END OF CHAPTER PROBLEMS HIGHLIGHT ALL IMPORTANT CONCEPTS AND PROCESSES

A DETAILED TREATMENT OF INFORMATION RELATING TO FLUID OXIDE INTERFACES IT OUTLINES METHODS FOR QUANTIFYING ADSORPTION AND DESORPTION OF POLYMERIC AND NON POLYMERIC SOLUTES AT THE GAS AND SOLUTION OXIDE INTERFACES IT ALSO ANALYZES NOVEL PROPERTIES OF OXIDE MEMBRANES AND THE SYNTHESIS AND DISSOLUTION OF OXIDE SOLIDS

aspiring engineers need a text that prepares them to use thermodynamics in professional practice thermodynamics instructors need a concise textbook written for a one semester undergraduate course a text that foregoes clutter and unnecessary details but furnishes the essential facts and methods thermodynamics for engineers second edition continues

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