

EXCEL CHEMICAL ENGINEERING SPREADSHEET XLS

EXCEL CHEMICAL ENGINEERING SPREADSHEET XLS EXCEL CHEMICAL ENGINEERING SPREADSHEETS YOUR DIGITAL LAB ASSISTANT CHEMICAL ENGINEERING AT ITS CORE IS ABOUT TRANSFORMING RAW MATERIALS INTO VALUABLE PRODUCTS THROUGH METICULOUS CALCULATIONS AND INTRICATE PROCESSES WHILE THE FUNDAMENTALS REMAIN GROUNDED IN SCIENTIFIC PRINCIPLES THE MODERN CHEMICAL ENGINEER RELIES HEAVILY ON POWERFUL TOOLS TO STREAMLINE THEIR WORK ANALYZE DATA AND OPTIMIZE THEIR DESIGNS AMONG THESE TOOLS EXCEL WITH ITS VERSATILITY AND ACCESSIBILITY HAS CARVED A SIGNIFICANT NICHE FOR ITSELF IN THE CHEMICAL ENGINEERING LANDSCAPE THE POWER OF EXCEL IN CHEMICAL ENGINEERING EXCEL BEYOND ITS SIMPLE APPEARANCE AS A SPREADSHEET SOFTWARE OFFERS A REMARKABLE SUITE OF FEATURES THAT CAN BE HARNESSED FOR A WIDE RANGE OF CHEMICAL ENGINEERING TASKS ITS ABILITY TO HANDLE LARGE DATASETS PERFORM COMPLEX CALCULATIONS AND GENERATE INSIGHTFUL VISUALIZATIONS MAKES IT AN INDISPENSABLE TOOL FOR STUDENTS RESEARCHERS AND PROFESSIONALS ALIKE HERE ARE SOME KEY AREAS WHERE EXCEL PROVES ITS METTLE IN CHEMICAL ENGINEERING 1 THERMODYNAMIC CALCULATIONS PHASE EQUILIBRIA CALCULATE VAPOR PRESSURES BUBBLE POINTS DEW POINTS AND COMPOSITIONS IN MULTICOMPONENT SYSTEMS USING RAOUFTS LAW HENRYS LAW AND OTHER THERMODYNAMIC MODELS ENTHALPY AND ENTROPY CALCULATIONS DETERMINE ENTHALPY CHANGES ENTROPY CHANGES AND GIBBS FREE ENERGY FOR CHEMICAL REACTIONS AND PHYSICAL PROCESSES HEAT TRANSFER CALCULATIONS CALCULATE HEAT TRANSFER COEFFICIENTS HEAT EXCHANGER PERFORMANCE AND HEAT LOSSES THROUGH INSULATION 2 REACTOR DESIGN AND ANALYSIS BATCH REACTOR MODELING SIMULATE THE BEHAVIOR OF BATCH REACTORS BY INTEGRATING RATE EQUATIONS ACCOUNTING FOR CHANGING CONCENTRATIONS AND TEMPERATURES PLUG FLOW REACTOR MODELING ANALYZE THE PERFORMANCE OF PLUG FLOW REACTORS OPTIMIZING RESIDENCE TIME AND CONVERSION CSTR MODELING DESIGN AND OPTIMIZE CONTINUOUS STIRRED TANK REACTORS CSTRs CONSIDERING MIXING RESIDENCE TIME DISTRIBUTION AND REACTION RATES 3 MASS TRANSFER OPERATIONS DISTILLATION COLUMN DESIGN CALCULATE THE NUMBER OF THEORETICAL STAGES REFLUX RATIO AND PRODUCT COMPOSITIONS IN DISTILLATION COLUMNS ABSORPTION AND STRIPPING CALCULATIONS OPTIMIZE THE DESIGN OF ABSORPTION AND STRIPPING COLUMNS FOR GAS SEPARATION AND PURIFICATION EXTRACTION AND LEACHING SIMULATE THE MASS TRANSFER IN EXTRACTION AND LEACHING PROCESSES DETERMINING THE EFFICIENCY AND OPTIMAL OPERATING CONDITIONS 4 PROCESS OPTIMIZATION SENSITIVITY ANALYSIS IDENTIFY CRITICAL PARAMETERS IN A PROCESS AND ASSESS THEIR IMPACT ON PERFORMANCE OPTIMIZATION ALGORITHMS UTILIZE BUILTIN EXCEL FUNCTIONS LIKE SOLVER TO FIND OPTIMAL OPERATING CONDITIONS FOR MAXIMIZING YIELD MINIMIZING COST OR REDUCING EMISSIONS DATA ANALYSIS AND VISUALIZATION GENERATE INSIGHTFUL GRAPHS AND CHARTS TO VISUALIZE PROCESS DATA IDENTIFY TRENDS AND TROUBLESHOOT PROBLEMS 5 PROCESS SIMULATION AND MODELING SIMPLE PROCESS MODELING CREATE RUDIMENTARY PROCESS MODELS USING EXCELS CALCULATION CAPABILITIES ALLOWING FOR PRELIMINARY DESIGN AND FEASIBILITY STUDIES INTEGRATING WITH OTHER SOFTWARE LINK EXCEL WITH OTHER SPECIALIZED PROCESS SIMULATION SOFTWARE FOR MORE COMPLEX MODELING AND ANALYSIS DATA MANAGEMENT AND REPORTING ORGANIZE AND ANALYZE PROCESS DATA GENERATE COMPREHENSIVE REPORTS AND TRACK KEY PERFORMANCE INDICATORS EXAMPLES OF EXCEL SPREADSHEETS FOR CHEMICAL ENGINEERS THE BEAUTY OF EXCEL LIES IN ITS ADAPTABILITY YOU CAN FIND COUNTLESS PREBUILT SPREADSHEETS ONLINE TAILORED FOR SPECIFIC CHEMICAL ENGINEERING TASKS CHEMICAL REACTION EQUILIBRIUM CALCULATOR CALCULATES THE EQUILIBRIUM CONSTANT EQUILIBRIUM CONCENTRATIONS AND EXTENT OF REACTION FOR A GIVEN CHEMICAL REACTION HEAT EXCHANGER DESIGN SPREADSHEET DETERMINES

THE REQUIRED HEAT TRANSFER AREA PRESSURE DROP AND EFFICIENCY FOR DIFFERENT HEAT EXCHANGER CONFIGURATIONS DISTILLATION COLUMN SIMULATION SIMULATES THE PERFORMANCE OF A MULTISTAGE DISTILLATION COLUMN CALCULATING PRODUCT PURITY REFLUX RATIO AND ENERGY CONSUMPTION BATCH REACTOR YIELD CALCULATION PREDICTS THE YIELD AND CONVERSION OF A BATCH REACTOR BASED ON REACTION KINETICS AND OPERATING CONDITIONS PROCESS ECONOMICS SPREADSHEET ANALYZES THE COST AND PROFITABILITY OF A CHEMICAL PROCESS 3 FACTORING IN RAW MATERIALS UTILITIES LABOR AND CAPITAL INVESTMENT BEYOND THE BASIC SPREADSHEET EXCELS POWER GOES BEYOND SIMPLE CALCULATIONS ITS ABILITY TO HANDLE MACROS VBA PROGRAMMING AND CUSTOM FUNCTIONS ALLOWS FOR SOPHISTICATED AUTOMATION AND CUSTOMIZED SOLUTIONS YOU CAN CREATE AUTOMATED PROCESS DATA LOGGING USE MACROS TO AUTOMATICALLY COLLECT DATA FROM SENSORS OR INSTRUMENTS AND STORE IT IN AN EXCEL SPREADSHEET DYNAMIC PROCESS VISUALIZATION DEVELOP INTERACTIVE DASHBOARDS THAT DISPLAY REALTIME PROCESS DATA ALLOWING FOR INSTANT INSIGHTS AND DECISIONMAKING ADVANCED STATISTICAL ANALYSIS UTILIZE EXCELS STATISTICAL FUNCTIONS AND ADDINS TO PERFORM REGRESSION ANALYSIS ANOVA AND OTHER STATISTICAL METHODS ON YOUR DATA TIPS FOR EFFECTIVE USE OF EXCEL IN CHEMICAL ENGINEERING STRUCTURE YOUR DATA CAREFULLY ORGANIZE YOUR DATA IN A CLEAR AND LOGICAL MANNER TO ENSURE EASE OF ANALYSIS AND MANIPULATION USE FORMULAS AND FUNCTIONS EFFECTIVELY LEVERAGE EXCELS VAST LIBRARY OF BUILTIN FORMULAS AND FUNCTIONS TO SIMPLIFY CALCULATIONS AND STREAMLINE YOUR WORKFLOW VISUALIZE YOUR DATA UTILIZE CHARTS AND GRAPHS TO PRESENT YOUR FINDINGS EFFECTIVELY MAKING THEM MORE INTUITIVE AND IMPACTFUL TEST AND VALIDATE YOUR RESULTS ENSURE THE ACCURACY OF YOUR CALCULATIONS BY CHECKING YOUR WORK METICULOUSLY AND VERIFYING YOUR RESULTS WITH INDEPENDENT SOURCES EXPLORE ADDINS AND MACROS UTILIZE EXCELS EXTENSIVE LIBRARY OF ADDINS AND MACROS TO ENHANCE FUNCTIONALITY AND AUTOMATE REPETITIVE TASKS CONCLUSION EXCEL WITH ITS USERFRIENDLY INTERFACE POWERFUL CALCULATION FEATURES AND VAST CUSTOMIZATION CAPABILITIES HAS BECOME AN INVALUABLE TOOL FOR CHEMICAL ENGINEERS WORLDWIDE WHETHER YOURE A STUDENT LEARNING THE FUNDAMENTALS OR A SEASONED PROFESSIONAL WORKING ON COMPLEX DESIGNS EXCEL CAN HELP YOU STREAMLINE YOUR WORK OPTIMIZE YOUR PROCESSES AND GAIN DEEPER INSIGHTS INTO THE CHEMICAL WORLD EMBRACE THE POWER OF THIS DIGITAL LAB ASSISTANT AND UNLOCK THE FULL POTENTIAL OF YOUR CHEMICAL ENGINEERING ENDEAVORS

4

SPREADSHEETS IN SCIENCE AND ENGINEERING SPREADSHEET PROBLEM SOLVING AND PROGRAMMING FOR ENGINEERS AND SCIENTISTS LUDWIG'S APPLIED PROCESS DESIGN FOR CHEMICAL AND PETROCHEMICAL PLANTS INTRODUCTION TO CHEMICAL ENGINEERING COMPUTING CHEMICAL ENGINEERING CHEMICAL PROCESS ENGINEERING VOLUME 1 THE EXCEL SPREADSHEET FOR ENGINEERS AND SCIENTISTS A PRACTICAL APPROACH TO CHEMICAL ENGINEERING FOR NON-CHEMICAL ENGINEERS QUATTRO PRO® FOR SCIENTIFIC AND ENGINEERING SPREADSHEETS CHEMICAL ENGINEERING EDUCATION COMPUTER APPLICATIONS IN CHEMICAL ENGINEERING NUMERICAL METHODS FOR CHEMICAL ENGINEERS USING EXCEL, VBA, AND MATLAB SPREADSHEET CHEMISTRY SPREADSHEETS FOR CHEMISTS SPREADSHEET TOOLS FOR ENGINEERS COMPUTERS IN CHEMICAL ENGINEERING EDUCATION CHEMICAL ENGINEERING PROGRESS CHEMICAL ENGINEERING ABSTRACTS ELECTRONIC SPREADSHEET COMPUTATIONS IN CHEMICAL ENGINEERING ORIENTAL JOURNAL OF CHEMISTRY GORDON FILBY DAVID E. CLOUGH A. KAYODE COKER BRUCE A. FINLAYSON RAHMAT SOTUDEH-GHAREBAGH IRVIN H. KRAL MOE TOGHRAEI ROBERT G. PARKS H. TH BUSSEMAKER VICTOR J. LAW O. JERRY PARKER GORDON FILBY BYRON S. GOTTFRIED BRICE CARNAHAN ANTHONY RAY CHARLES SPREADSHEETS IN SCIENCE AND ENGINEERING SPREADSHEET PROBLEM SOLVING AND PROGRAMMING FOR ENGINEERS AND SCIENTISTS LUDWIG'S APPLIED PROCESS DESIGN FOR CHEMICAL AND PETROCHEMICAL PLANTS INTRODUCTION TO CHEMICAL ENGINEERING COMPUTING CHEMICAL ENGINEERING CHEMICAL PROCESS ENGINEERING VOLUME 1 THE EXCEL SPREADSHEET FOR ENGINEERS AND SCIENTISTS A PRACTICAL APPROACH TO CHEMICAL ENGINEERING FOR NON-

CHEMICAL ENGINEERS QUATTRO PRO® FOR SCIENTIFIC AND ENGINEERING SPREADSHEETS CHEMICAL ENGINEERING EDUCATION COMPUTER APPLICATIONS IN CHEMICAL ENGINEERING NUMERICAL METHODS FOR CHEMICAL ENGINEERS USING EXCEL, VBA, AND MATLAB SPREADSHEET CHEMISTRY SPREADSHEETS FOR CHEMISTS SPREADSHEET TOOLS FOR ENGINEERS COMPUTERS IN CHEMICAL ENGINEERING EDUCATION CHEMICAL ENGINEERING PROGRESS CHEMICAL ENGINEERING ABSTRACTS ELECTRONIC SPREADSHEET COMPUTATIONS IN CHEMICAL ENGINEERING ORIENTAL JOURNAL OF CHEMISTRY *GORDON FILBY DAVID E. CLOUGH A. KAYODE COKER BRUCE A. FINLAYSON RAHMAT SOTUDEH-GHAREBAGH IRVIN H. KRAL MOE TOGHRAEI ROBERT G. PARKS H. TH BUSSEMAKER VICTOR J. LAW O. JERRY PARKER GORDON FILBY BYRON S. GOTTFRIED BRICE CARNAHAN ANTHONY RAY CHARLES*

SPREADSHEETS IN SCIENCE AND ENGINEERING SHOWS SCIENTISTS AND ENGINEERS AT ALL LEVELS HOW TO ANALYZE, VALIDATE AND CALCULATE DATA AND HOW THE ANALYTICAL AND GRAPHIC CAPABILITIES OF SPREADSHEET PROGRAMS EXCEL CAN SOLVE THESE TASKS IN THEIR DAILY WORK. THE EXAMPLES ON THE CD ROM ACCOMPANYING THE BOOK INCLUDE MATERIAL OF UNDERGRADUATE TO CURRENT RESEARCH LEVEL IN DISCIPLINES RANGING FROM CHEMISTRY AND CHEMICAL ENGINEERING TO MOLECULAR BIOLOGY AND GEOLOGY.

SPREADSHEET PROBLEM SOLVING AND PROGRAMMING FOR ENGINEERS AND SCIENTISTS PROVIDES A COMPREHENSIVE RESOURCE ESSENTIAL TO A FULL UNDERSTANDING OF MODERN SPREADSHEET SKILLS NEEDED FOR ENGINEERING AND SCIENTIFIC COMPUTATIONS BEGINNING WITH THE BASICS OF SPREADSHEETS AND PROGRAMMING THIS BOOK BUILDS ON THE AUTHORS DECADES OF EXPERIENCE TEACHING SPREADSHEETS AND PROGRAMMING TO BOTH UNIVERSITY STUDENTS AND PROFESSIONAL ENGINEERS AND SCIENTISTS FOLLOWING ON FROM THIS IT COVERS ENGINEERING ECONOMICS KEY NUMERICAL METHODS AND APPLIED STATISTICS FINALLY THIS BOOK DETAILS THE VISUAL BASIC FOR APPLICATIONS VBA PROGRAMMING SYSTEM THAT ACCOMPANIES EXCEL WITH EACH CHAPTER INCLUDING EXAMPLES AND A SET OF EXERCISES THIS BOOK IS AN IDEAL COMPANION FOR ALL ENGINEERING COURSES AND ALSO FOR SELF STUDY BASED ON THE LATEST VERSION OF EXCEL MICROSOFT EXCEL FOR MICROSOFT 365 IT IS ALSO COMPATIBLE WITH EARLIER VERSIONS OF EXCEL DATING BACK TO VERSION 2013 INCLUDING NUMEROUS CASE STUDIES THIS BOOK WILL BE OF INTEREST TO STUDENTS AND PROFESSIONALS WORKING IN ALL AREAS OF ENGINEERING AND SCIENCE.

THIS COMPLETE REVISION OF APPLIED PROCESS DESIGN FOR CHEMICAL AND PETROCHEMICAL PLANTS VOLUME 1 BUILDS UPON ERNEST E LUDWIG'S CLASSIC TEXT TO FURTHER ENHANCE ITS USE AS A CHEMICAL ENGINEERING PROCESS DESIGN MANUAL OF METHODS AND PROVEN FUNDAMENTALS THIS NEW EDITION INCLUDES IMPORTANT SUPPLEMENTAL MECHANICAL AND RELATED DATA NOMOGRAPHS AND CHARTS ALSO INCLUDED WITHIN ARE IMPROVED TECHNIQUES AND FUNDAMENTAL METHODOLOGIES TO GUIDE THE ENGINEER IN DESIGNING PROCESS EQUIPMENT AND APPLYING CHEMICAL PROCESSES TO PROPERLY DETAILED EQUIPMENT ALL THREE VOLUMES OF APPLIED PROCESS DESIGN FOR CHEMICAL AND PETROCHEMICAL PLANTS SERVE THE PRACTICING ENGINEER BY PROVIDING ORGANIZED DESIGN PROCEDURES DETAILS ON THE EQUIPMENT SUITABLE FOR APPLICATION SELECTION AND CHARTS IN READILY USABLE FORM PROCESS ENGINEERS DESIGNERS AND OPERATORS WILL FIND MORE CHEMICAL PETROCHEMICAL PLANT DESIGN DATA IN VOLUME 2 THIRD EDITION WHICH COVERS DISTILLATION AND PACKED TOWERS AS WELL AS MATERIAL ON AZEOTROPES AND IDEAL NON IDEAL SYSTEMS VOLUME 3 THIRD EDITION WHICH COVERS HEAT TRANSFER REFRIGERATION SYSTEMS COMPRESSION SURGE DRUMS AND MECHANICAL DRIVERS A KAYODE COKER IS CHAIRMAN OF CHEMICAL PROCESS ENGINEERING TECHNOLOGY DEPARTMENT AT JUBAIL INDUSTRIAL COLLEGE IN SAUDI ARABIA HE IS BOTH A CHARTERED SCIENTIST AND A CHARTERED CHEMICAL ENGINEER FOR MORE THAN 15 YEARS AND AN AUTHOR OF FORTRAN PROGRAMS FOR CHEMICAL PROCESS DESIGN ANALYSIS AND SIMULATION GULF PUBLISHING CO AND MODELING OF CHEMICAL KINETICS AND REACTOR DESIGN BUTTERWORTH HEINEMANN PROVIDES IMPROVED DESIGN MANUALS FOR METHODS AND PROVEN

FUNDAMENTALS OF PROCESS DESIGN WITH RELATED DATA AND CHARTS COVERS A COMPLETE RANGE OF BASIC DAY TO DAY PETROCHEMICAL OPERATION TOPICS WITH NEW MATERIAL ON SIGNIFICANT INDUSTRY CHANGES SINCE 1995

AN INNOVATIVE INTRODUCTION TO CHEMICAL ENGINEERING COMPUTING AS CHEMICAL ENGINEERING TECHNOLOGY ADVANCES SO DOES THE COMPLEXITY OF THE PROBLEMS THAT ARISE THE PROBLEMS THAT CHEMICAL ENGINEERS AND CHEMICAL ENGINEERING STUDENTS FACE TODAY CAN NO LONGER BE ANSWERED WITH PROGRAMS WRITTEN ON A CASE BY CASE BASIS INTRODUCTION TO CHEMICAL ENGINEERING COMPUTING TEACHES PROFESSIONALS AND STUDENTS THE KINDS OF PROBLEMS THEY WILL HAVE TO SOLVE THE TYPES OF COMPUTER PROGRAMS NEEDED TO SOLVE THESE PROBLEMS AND HOW TO ENSURE THAT THE PROBLEMS HAVE BEEN SOLVED CORRECTLY EACH CHAPTER IN INTRODUCTION TO CHEMICAL ENGINEERING COMPUTING CONTAINS A DESCRIPTION OF THE PHYSICAL PROBLEM IN GENERAL TERMS AND IN A MATHEMATICAL CONTEXT THOROUGH STEP BY STEP INSTRUCTIONS NUMEROUS EXAMPLES AND COMPREHENSIVE EXPLANATIONS FOR EACH PROBLEM AND PROGRAM THIS INDISPENSABLE TEXT FEATURES EXCEL MATLAB R ASPEN PLUSTM AND FEMLAB PROGRAMS AND ACQUAINTS READERS WITH THE ADVANTAGES OF EACH PERFECT FOR STUDENTS AND PROFESSIONALS INTRODUCTION TO CHEMICAL ENGINEERING COMPUTING GIVES READERS THE PROFESSIONAL TOOLS THEY NEED TO SOLVE REAL WORLD PROBLEMS INVOLVING EQUATIONS OF STATE VAPOR LIQUID AND CHEMICAL REACTION EQUILIBRIA MASS BALANCES WITH RECYCLE STREAMS MASS TRANSFER EQUIPMENT PROCESS SIMULATION CHEMICAL REACTORS TRANSFER PROCESSES IN 1D FLUID FLOW IN 2D AND 3D CONVECTIVE DIFFUSION EQUATIONS IN 2D AND 3D

WRITTEN BY TWO OF THE MOST PROLIFIC AND RESPECTED CHEMICAL ENGINEERS IN THE WORLD THIS GROUNDBREAKING TWO VOLUME SET IS THE NEW STANDARD IN THE INDUSTRY OFFERING ENGINEERS AND STUDENTS ALIKE THE MOST UP TO DATE COMPREHENSIVE AND STATE OF THE ART COVERAGE OF PROCESSES AND BEST PRACTICES IN THE FIELD TODAY THIS FIRST NEW VOLUME IN A TWO VOLUME SET EXPLORES AND DESCRIBES INTEGRATING NEW TOOLS FOR ENGINEERING EDUCATION AND PRACTICE FOR BETTER UTILIZATION OF THE EXISTING KNOWLEDGE ON PROCESS DESIGN USEFUL NOT ONLY FOR STUDENTS PROFESSORS SCIENTISTS AND PRACTITIONERS ESPECIALLY PROCESS CHEMICAL MECHANICAL AND METALLURGICAL ENGINEERS IT IS ALSO A VALUABLE REFERENCE FOR OTHER ENGINEERS CONSULTANTS TECHNICIANS AND SCIENTISTS CONCERNED ABOUT VARIOUS ASPECTS OF INDUSTRIAL DESIGN THE TEXT CAN BE CONSIDERED AS A COMPLEMENTARY TEXT TO PROCESS DESIGN FOR SENIOR AND GRADUATE STUDENTS AS WELL AS A HANDS ON REFERENCE WORK OR REFRESHER FOR ENGINEERS AT ENTRY LEVEL THE CONTENTS OF THE BOOK CAN ALSO BE TAUGHT IN INTENSIVE WORKSHOPS IN THE OIL GAS PETROCHEMICAL BIOCHEMICAL AND PROCESS INDUSTRIES THE BOOK PROVIDES A DETAILED DESCRIPTION AND HANDS ON EXPERIENCE ON PROCESS DESIGN IN CHEMICAL ENGINEERING AND IT IS AN INTEGRATED TEXT THAT FOCUSES ON PRACTICAL DESIGN WITH NEW TOOLS SUCH AS EXCEL SPREADSHEETS AND UNISIM SIMULATION SOFTWARE WRITTEN BY TWO INDUSTRY AND UNIVERSITY'S MOST TRUSTWORTHY AND WELL KNOWN AUTHORS THIS BOOK IS THE NEW STANDARD IN CHEMICAL BIOCHEMICAL PHARMACEUTICAL PETROCHEMICAL AND PETROLEUM REFINING COVERING DESIGN ANALYSIS SIMULATION INTEGRATION AND PERHAPS MOST IMPORTANTLY THE PRACTICAL APPLICATION OF MICROSOFT EXCEL UNISIM SOFTWARE THIS IS THE MOST COMPREHENSIVE AND UP TO DATE COVERAGE OF ALL OF THE LATEST DEVELOPMENTS IN THE INDUSTRY IT IS A MUST HAVE FOR ANY ENGINEER OR STUDENT'S LIBRARY

A COMPLETE TUTORIAL ON HOW TO USE ALL VERSION OF THE EXCEL SPREADSHEETS INCLUDING 3.0 FOR SPECIFIC ENGINEERING AND SCIENTIFIC FUNCTIONS

A PRACTICAL APPROACH TO CHEMICAL ENGINEERING FOR NON CHEMICAL ENGINEERS IS AIMED AT PEOPLE WHO ARE DEALING WITH CHEMICAL ENGINEERS OR THOSE WHO ARE INVOLVED IN CHEMICAL PROCESSING PLANTS THE BOOK DEMYSTIFIES COMPLICATED CHEMICAL ENGINEERING CONCEPTS THROUGH DAILY LIFE

EXAMPLES AND ANALOGIES IT CONTAINS MANY ILLUSTRATIONS AND TABLES THAT FACILITATE QUICK AND IN DEPTH UNDERSTANDING OF THE CONCEPTS HANDLED IN THE BOOK BY STUDYING THIS BOOK PRACTICING ENGINEERS NON CHEMICAL PROFESSIONALS TECHNICIANS AND OTHER SKILLED WORKERS WILL GAIN A DEEPER UNDERSTANDING OF WHAT CHEMICAL ENGINEERS SAY AND ASK FOR THE BOOK IS ALSO USEFUL FOR ENGINEERING STUDENTS WHO PLAN TO GET INTO CHEMICAL ENGINEERING AND WANT TO KNOW MORE ON THE TOPIC AND ANY RELATED JARGON PROVIDES NUMEROUS GRAPHS IMAGES SKETCHES TABLES HELP BETTER UNDERSTANDING OF CONCEPTS IN A VISUAL WAY DESCRIBES COMPLICATED CHEMICAL ENGINEERING CONCEPTS BY DAILY LIFE EXAMPLES AND ANALOGIES RATHER THAN BY FORMULA INCLUDES A VIRTUAL TOUR OF AN IMAGINARY PROCESS PLANT EXPLAINS THE MAJORITY OF UNITS IN CHEMICAL ENGINEERING

ENGINEERS AND SCIENTISTS CAN USE SPREADSHEETS TO HELP THEM QUICKLY SOLVE TECHNICAL PROBLEMS IDEAL FOR ANALYZING AND MANIPULATING DATA QUATTRO PRO SPREADSHEET SOFTWARE FROM BORLAND INTERNATIONAL ALSO TURNS OUT TO BE AN EXCELLENT TOOL FOR TECHNOLOGISTS REQUIRING DATABASE MANAGEMENT MATHEMATICAL FUNCTIONS GRAPHING DATA STATISTICS REGRESSION ANALYSIS MATRIX ARITHMETIC AND MORE IN THIS BOOK PROFESSIONAL ENGINEER ROBERT G PARKS DESCRIBES THE SPECIFIC FUNCTIONS OF QUATTRO PRO 3.0 THAT BENEFIT SCIENTISTS AND ENGINEERS IN A RANGE OF DISCIPLINES THE BOOK CONTAINS NUMEROUS EXAMPLES WITH CLEARLY DEFINED STEPS TO HELP TECHNOLOGISTS INTEGRATE BORLAND'S POWERFUL SOFTWARE INTO THEIR DAILY WORK LIVES

THIS BOOK PRESENTS THE LATEST TRENDS IN COMPUTING COMPUTER GRAPHICS AND COMPUTERIZED DESIGN TOOLS IT ALSO GIVES A STATE OF THE ART OVERVIEW OF MODELLING PROCESS INTEGRATION AND PROCESS DESIGN ALL PAPERS DESCRIBE NEW COMPUTER ALGORITHMS AND OR TECHNIQUES FOR THE WHOLE RANGE OF COMPUTERS FROM THE PC TO THE SUPERCOMPUTER UNIT OPERATIONS ARE WELL COVERED AS WELL AS A NUMBER OF TOPICS IN REACTOR ENGINEERING AND CONTROL ENGINEERING THESE PROCEEDINGS SHOULD BE OF INTEREST NOT ONLY TO CHEMICAL ENGINEERS BUT ALSO TO COMPUTER SCIENTISTS CONTROL ENGINEERS SOFTWARE DEVELOPERS AND ALL THOSE WITH AN EDUCATION OR MANAGEMENT FUNCTION IN CHEMICAL ENGINEERING

WHILE TEACHING THE NUMERICAL METHODS FOR ENGINEERS COURSE OVER THE LAST 15 YEARS THE AUTHOR FOUND A NEED FOR A NEW TEXTBOOK ONE THAT WAS LESS ELEMENTARY PROVIDED APPLICATIONS AND PROBLEMS BETTER SUITED FOR CHEMICAL ENGINEERS AND CONTAINED INSTRUCTION IN VISUAL BASIC FOR APPLICATIONS VBA THIS LED TO SIX YEARS OF DEVELOPING TEACHING NOTES THAT HAVE BEEN ENHANCED TO CREATE THE CURRENT TEXTBOOK NUMERICAL METHODS FOR CHEMICAL ENGINEERS USING EXCEL VBA AND MATLAB FOCUSING ON EXCEL GIVES THE ADVANTAGE OF IT BEING GENERALLY AVAILABLE SINCE IT IS PRESENT ON EVERY COMPUTER PC AND MAC THAT HAS MICROSOFT OFFICE INSTALLED THE VBA PROGRAMMING ENVIRONMENT COMES WITH EXCEL AND GREATLY ENHANCES THE CAPABILITIES OF EXCEL SPREADSHEETS WHILE THERE IS NO PERFECT PROGRAMMING SYSTEM TEACHING THIS COMBINATION OFFERS KNOWLEDGE IN A WIDELY AVAILABLE PROGRAM THAT IS COMMONLY USED EXCEL AS WELL AS A POPULAR ACADEMIC SOFTWARE PACKAGE MATLAB CHAPTERS COVER NONLINEAR EQUATIONS VISUAL BASIC LINEAR ALGEBRA ORDINARY DIFFERENTIAL EQUATIONS REGRESSION ANALYSIS PARTIAL DIFFERENTIAL EQUATIONS AND MATHEMATICAL PROGRAMMING METHODS EACH CHAPTER CONTAINS EXAMPLES THAT SHOW IN DETAIL HOW A PARTICULAR NUMERICAL METHOD OR PROGRAMMING METHODOLOGY CAN BE IMPLEMENTED IN EXCEL AND OR VBA OR MATLAB IN CHAPTER 10 MOST OF THE EXAMPLES AND PROBLEMS PRESENTED IN THE TEXT ARE RELATED TO CHEMICAL AND BIOMOLECULAR ENGINEERING AND COVER A BROAD RANGE OF APPLICATION AREAS INCLUDING THERMODYNAMICS FLUID FLOW HEAT TRANSFER MASS TRANSFER REACTION KINETICS REACTOR DESIGN PROCESS DESIGN AND PROCESS CONTROL THE CHAPTERS FEATURE DID YOU KNOW BOXES USED TO REMIND READERS OF EXCEL FEATURES THEY ALSO CONTAIN END OF CHAPTER EXERCISES WITH SOLUTIONS PROVIDED

A PRACTICAL GUIDE SPREADSHEETS FOR CHEMISTS SHOWS CHEMISTS OF ALL LEVELS HOW TO USE SPREADSHEET PROGRAMS IN THEIR DAILY WORK IT HIGHLIGHTS THE POSSIBILITIES PROVIDED BY LOTUS 1 2 3 THE MOST WIDELY USED SPREADSHEET PROGRAM IN THE SCIENCES APART FROM HUNDREDS OF EXAMPLE FRAGMENTS IT FEATURES DETAILED DISCUSSION OF THE MOST RELEVANT FUNCTIONS AND ALL THE MACRO COMMANDS AN ACCOMPANYING DISKETTE CONTAINING 57 WORKSHEETS INVOLVING MANY DIFFERENT FIELDS OF CHEMICAL RESEARCH AND TEACHING AN EXTENSIVE GLOSSARY OF SPREADSHEET TERMS THREE APPENDICES COVERING 1 2 3 S COMPETITORS AND ADD IN PACKAGES THE USE OF WINDOWS BASED SPREADSHEETS AND HOW WHAT IF ANALYSIS AND BACK SOLVING IS APPLIED ALTHOUGH THE DISK EXAMPLES WERE DEVELOPED FOR LOTUS 1 2 3 DOS VERSIONS 2 X X 2 4 THE WORKSHEETS ARE COMPATIBLE WITH THE NEWER WINDOWS VERSIONS AND THOSE OF THEIR MAIN COMPETITORS BORLAND S QUATTRO PRO AND MICROSOFT S EXCEL SEVERAL COMPATIBLE SPREADSHEETS ASEASYAS PROQUBE MIGHT ALSO BE AS USED AS INEXPENSIVE ALTERNATIVES THE AUTHOR IS A SENIOR SCIENTIST AT THE NUCLEAR RESEARCH CENTRE IN KARLSRUHE GERMANY HE HAS BEEN USING SPREADSHEET SOFTWARE FOR NEARLY TEN YEARS SUCCESSFULLY IN A VARIETY OF CHEMICAL PROBLEMS

SPREADSHEET TOOLS FOR ENGINEERS EXCEL 97 VERSION EXPLAINS HOW TO USE THE LATEST VERSION OF MICROSOFT S POPULAR SPREADSHEET PACKAGE EXCEL TO SOLVE SIMPLE PROBLEMS THAT COMMONLY ARISE IN ENGINEERING ANALYSIS IT IS INTENDED AS A SUPPLEMENTARY TEXTBOOK FOR USE IN INTRODUCTORY ENGINEERING COURSES ALTHOUGH IT WILL ALSO BE OF INTEREST TO MORE ADVANCED STUDENTS AND TO PRACTICING ENGINEERS THIS NEW EDITION HAS BEEN REWRITTEN FOR EXCEL 97 THE VERSION OF EXCEL INCLUDED IN MICROSOFT S OFFICE 97 SUITE IT INCLUDES SEPARATE CHAPTERS ON EXCEL FUNDAMENTALS GRAPHING DATA ANALYZING DATA USING SIMPLE STATISTICS FITTING EQUATIONS TO DATA INTERPOLATING BETWEEN DATA POINTS SOLVING SINGLE ALGEBRAIC EQUATIONS SOLVING SIMULTANEOUS ALGEBRAIC EQUATIONS EVALUATING INTEGRALS COMPARING ALTERNATIVES USING ENGINEERING ECONOMIC ANALYSIS FINDING OPTIMUM SOLUTIONS AND SORTING AND RETRIEVING DATA THE BOOK CONTAINS MANY DETAILED EXAMPLES SUPPLEMENTED BY A LARGE NUMBER OF PROBLEMS FOR STUDENT SOLUTION ANSWERS ARE PROVIDED FOR MOST PROBLEMS BOOK JACKET

VERY GOOD NO HIGHLIGHTS OR MARKUP ALL PAGES ARE INTACT

THANK YOU VERY MUCH FOR DOWNLOADING **EXCEL CHEMICAL ENGINEERING SPREADSHEET XLS**. AS YOU MAY KNOW, PEOPLE HAVE LOOK NUMEROUS TIMES FOR THEIR CHOSEN NOVELS LIKE THIS EXCEL CHEMICAL ENGINEERING SPREADSHEET XLS, BUT END UP IN INFECTIOUS DOWNLOADS. RATHER THAN READING A GOOD BOOK WITH A CUP OF COFFEE IN THE AFTERNOON, INSTEAD THEY JUGGLED WITH SOME INFECTIOUS VIRUS INSIDE THEIR COMPUTER. EXCEL CHEMICAL ENGINEERING SPREADSHEET XLS IS AVAILABLE IN OUR DIGITAL LIBRARY AN ONLINE ACCESS TO IT IS SET AS PUBLIC SO YOU CAN DOWNLOAD IT INSTANTLY. OUR DIGITAL LIBRARY SPANS IN MULTIPLE LOCATIONS, ALLOWING YOU TO GET THE MOST LESS LATENCY TIME TO DOWNLOAD ANY OF OUR BOOKS LIKE THIS ONE. KINDLY SAY, THE EXCEL CHEMICAL ENGINEERING SPREADSHEET XLS IS UNIVERSALLY COMPATIBLE

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TECHNOLOGICAL ADVANCES

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EXPANDING ACCESS

EFFORTS TO EXPAND INTERNET ACCESS GLOBALLY WILL HELP MORE PEOPLE BENEFIT FROM FREE EBOOK SITES.

ROLE IN EDUCATION

AS EDUCATIONAL RESOURCES BECOME MORE DIGITIZED, FREE EBOOK SITES WILL PLAY AN INCREASINGLY VITAL ROLE IN LEARNING.

CONCLUSION

IN SUMMARY, FREE EBOOK SITES OFFER AN INCREDIBLE OPPORTUNITY TO ACCESS A WIDE RANGE OF BOOKS WITHOUT THE FINANCIAL BURDEN. THEY ARE INVALUABLE RESOURCES FOR READERS OF ALL AGES AND INTERESTS, PROVIDING EDUCATIONAL MATERIALS, ENTERTAINMENT, AND ACCESSIBILITY FEATURES. SO WHY NOT EXPLORE THESE SITES AND DISCOVER THE WEALTH

OF KNOWLEDGE THEY OFFER?

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