

RAYMOND CHANG CHIMIE SOLUTIONS

DESIGNED FOR THE TWO SEMESTER GENERAL CHEMISTRY COURSE CHANG'S TEXTBOOK HAS OFTEN BEEN CONSIDERED A STUDENT FAVORITE THIS BEST SELLING TEXTBOOK TAKES A TRADITIONAL APPROACH IT FEATURES A STRAIGHTFORWARD CLEAR WRITING STYLE AND PROVEN PROBLEM SOLVING STRATEGIES THE STRENGTH OF THE SEVENTH EDITION IS THE INTEGRATION OF MANY TOOLS THAT ARE DESIGNED TO INSPIRE BOTH STUDENTS AND INSTRUCTORS THE TEXTBOOK IS THE FOUNDATION FOR THE TECHNOLOGY THE MULTI MEDIA PACKAGE FOR THE NEW EDITION STRETCHES STUDENTS BEYOND THE CONFINES OF THE TRADITIONAL TEXTBOOK

THIS SOLUTIONS MANUAL TO ACCOMPANY RAYMOND CHANG'S PHYSICAL CHEMISTRY FOR THE CHEMICAL AND BIOLOGICAL SCIENCES RESTATES EACH OF THE 1020 INNOVATIVE CHAPTER ENDING PROBLEMS IN THE TEXT FOLLOWED BY A DETAILED SOLUTION. EACH SOLUTION IS APPROACHED WITH THE SAME CONVERSATIONAL STYLE THAT THE AUTHORS USE IN THEIR OWN CLASSROOMS AS THEY TRY TO TEACH SOLUTIONS TO THE PROBLEMS RATHER THAN SIMPLY GIVING OUT ANSWERS. ONE HUNDRED FORTY

THREE FIGURES AND DIAGRAMS ARE USED TO ILLUSTRATE THE SOLUTIONS BOTH AUTHORS ARE RECENT RECIPIENTS OF THE HENRY DREYFUS TEACHER SCHOLAR AWARD AND BRING TO THE MANUAL EFFECTIVE PEDAGOGY AS WELL AS THE VITALITY OF MODERN PHYSICAL CHEMISTRY

FOR ALL INTERESTED IN THE USE OR MANUFACTURE OF COLOURS AND IN CALICO PRINTING BLEACHING ETC

PERHAPS NOTHING CAN BETTER HELP STUDENTS UNDERSTAND DIFFICULT CONCEPTS THAN WORKING THROUGH AND SOLVING PROBLEMS BY PROVIDING A STRONG PEDAGOGICAL FRAMEWORK FOR SELF STUDY THIS SOLUTIONS MANUAL WILL GIVE STUDENTS FRESH INSIGHTS INTO CONCEPTS AND PRINCIPLES THAT MAY ELUDE THEM IN THE LECTURE HALL IT FEATURES DETAILED SOLUTIONS TO EACH OF THE EVEN NUMBERED PROBLEMS FROM RAYMOND CHANG S PHYSICAL CHEMISTRY FOR THE BIOSCIENCES THE AUTHORS APPROACH EACH SOLUTION WITH THE SAME CONVERSATIONAL STYLE THAT THEY USE IN THEIR CLASSROOMS AS THEY TEACH STUDENTS PROBLEM SOLVING TECHNIQUES RATHER THAN SIMPLY HANDING OUT ANSWERS ILLUSTRATIVE FIGURES AND DIAGRAMS ARE USED THROUGHOUT BOOK JACKET

THIS BOOKLET IS DESIGNED TO BRIDGE THE GAP BETWEEN HANDBOOKS AND TECHNICAL LITERATURE AND AIMS AT GRADUATE STUDENTS OR EXPERIENCED READERS COMMERCIAL FLOW SHEETING SIMULATION SOFTWARE IS INCREASINGLY AVAILABLE AND IS USED IN THE EARLY STEPS OF PROCESS DESIGN IN INDUSTRY AS TO THIS MORE SOPHISTICATED AND PRECISE MODELS BASED ON ACTIVITIES INSTEAD OF CONCENTRATIONS SHOULD BE USED AFTER AN INTRODUCTORY CHAPTER THERE IS IN CHAPTER 2 AN INTENSIVE DISCUSSION OF REACTIVE PHASE EQUILIBRIA OF IONIC AND NON IONIC SOLUTES BASED ON CHEMICAL POTENTIALS CHAPTER 3 INTRODUCES TO MULTICOMPONENT DIFFUSION AND MASS TRANSFER HOWEVER THE MAIN FOCUS IS ON THE REACTIVE MASS TRANSFER ON RIGID AND MOBILE SURFACES WHERE THE INTERFACIAL REACTION MOLECULAR DIFFUSION AND ADSORPTION LAYERS ARE DECISIVE THE RESPECTIVE EXTRACTION OF ZINC WITH A CATION EXCHANGER AND OF ACETIC ACID WITH AN ANION EXCHANGER IS DISCUSSED AS CASE STUDIES SINCE ADSORPTION LAYERS AND SURFACTANTS HAVE A MAJOR IMPACT ON LIQUID LIQUID EXTRACTION EFFICIENCY THE FINAL CHAPTER REVIEWS SEVERAL TECHNIQUES WHICH MAKE USE OF POLYMERIC SPECIES IN AN EXTRACTIVE PROCESS A SHORT REVIEW IS ALSO GIVEN ON EXTRACTION APPARATUS AND THE HYDRODYNAMICS HYDRAULIC DESIGN DROPLET POPULATION BALANCES OF COLUMNS MUCH OF THE BOOKLET IS BASED ON THE PHD WORKS OF C Czapla 2000 G Modes 2000 H Klocker 1996 T Kronberger 1995 M Martens 2000 M Roos 2000 M Traving 2000 And B Wachter 1996 WHO I WISH TO THANK FOR THEIR FRUITFUL CONTRIBUTIONS

BY BRANDON J CRUICKSHANK NORTHERN ARIZONA UNIVERSITY AND RAYMOND CHANG THIS SUPPLEMENT CONTAINS DETAILED SOLUTIONS AND EXPLANATIONS FOR ALL EVEN NUMBERED PROBLEMS IN THE MAIN TEXT THE MANUAL ALSO INCLUDES A DETAILED DISCUSSION OF DIFFERENT TYPES OF PROBLEMS AND APPROACHES TO SOLVING CHEMICAL PROBLEMS AND TUTORIAL SOLUTIONS FOR MANY OF THE END OF CHAPTER PROBLEMS IN THE TEXT ALONG WITH STRATEGIES FOR SOLVING THEM

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