3 TRAILBLAZER ABS MODULE DIAGRAM

HANDBOOK OF RE-ENGINEERING SOFTWARE INTENSIVE SYSTEMS INTO SOFTWARE PRODUCT LINESTELEMATICS COMMUNICATION TECHNOLOGIES AND VEHICULAR NETWORKS: WIRELESS ARCHITECTURES AND APPLICATIONSMECHANICAL, INFORMATION AND INDUSTRIAL EngineeringAutomotive Applications of Hardware-in-the-Loop (HIL) SimulationIntegration OF CONSTRAINT PROGRAMMING, ARTIFICIAL INTELLIGENCE, AND OPERATIONS RESEARCHFUNDAMENTALS OF MEDIUM/HEAVY DUTY COMMERCIAL VEHICLE SYSTEMSCOMPUTERS AS COMPONENTSFORMAL METHODS FOR ETERNAL NETWORKED SOFTWARE SYSTEMSINTERNATIONAL IOURNAL OF VEHICLE DESIGNENGINEERING CHEMISTRY ADVANCED AUTOMOTIVE ENGINE PerformanceAutomobile Electrical and Electronic SystemsInformation Science and ELECTRONIC ENGINEERINGCHAOTIC SECURE COMMUNICATIONINTERSOL EIGHTY FIVEMARINE ELECTRICAL BASICS WORKBOOKLEARNING ROBOTICS USING PYTHONFORMAL METHODS FOR COMPONENTS AND OBJECTSC. ROBERTO E. LOPEZ-HERREJON HUANG, CHUNG-MING LI WANG ADIT JOSHI LOUIS-Martin Rousseau Gus Wright Marilyn Wolf Marco Bernardo Thakur Publication MICHAEL KLYDE TOM DENTON DONGXING WANG KEHUI SUN E. BILGEN WILLIAM A. YOUNG LENTIN JOSEPH ELENA GIACHINO SAUNDERS MACLANE HANDBOOK OF RE-ENGINEERING SOFTWARE INTENSIVE SYSTEMS INTO SOFTWARE PRODUCT LINES TELEMATICS COMMUNICATION TECHNOLOGIES AND VEHICULAR NETWORKS: WIRELESS ARCHITECTURES AND APPLICATIONS MECHANICAL, INFORMATION AND INDUSTRIAL ENGINEERING AUTOMOTIVE APPLICATIONS OF HARDWARE-IN-THE-LOOP (HIL) SIMULATION INTEGRATION OF CONSTRAINT PROGRAMMING, ARTIFICIAL INTELLIGENCE, AND OPERATIONS RESEARCH FUNDAMENTALS of Medium/Heavy Duty Commercial Vehicle Systems Computers as Components Formal METHODS FOR ETERNAL NETWORKED SOFTWARE SYSTEMS INTERNATIONAL JOURNAL OF VEHICLE DESIGN ENGINEERING CHEMISTRY ADVANCED AUTOMOTIVE ENGINE PERFORMANCE AUTOMOBILE ELECTRICAL AND ELECTRONIC SYSTEMS INFORMATION SCIENCE AND ELECTRONIC ENGINEERING CHAOTIC SECURE COMMUNICATION INTERSOL EIGHTY FIVE MARINE ELECTRICAL BASICS WORKBOOK

LEARNING ROBOTICS USING PYTHON FORMAL METHODS FOR COMPONENTS AND OBJECTS C.

ROBERTO E. LOPEZ-HERREJON HUANG, CHUNG-MING LI WANG ADIT JOSHI LOUIS-MARTIN

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KLYDE TOM DENTON DONGXING WANG KEHUI SUN E. BILGEN WILLIAM A. YOUNG LENTIN JOSEPH

ELENA GIACHINO SAUNDERS MACLANE

THIS HANDBOOK DISTILS THE WEALTH OF EXPERTISE AND KNOWLEDGE FROM A LARGE COMMUNITY OF RESEARCHERS AND INDUSTRIAL PRACTITIONERS IN SOFTWARE PRODUCT LINES SPLS GAINED THROUGH EXTENSIVE AND RIGOROUS THEORETICAL EMPIRICAL AND APPLIED RESEARCH IT IS A TIMELY COMPILATION OF WELL ESTABLISHED AND CUTTING EDGE APPROACHES THAT CAN BE LEVERAGED BY THOSE FACING THE PREVAILING AND DAUNTING CHALLENGE OF RE ENGINEERING THEIR SYSTEMS INTO SPLS THE SELECTION OF CHAPTERS PROVIDES READERS WITH A WIDE AND DIVERSE PERSPECTIVE THAT REFLECTS THE COMPLEMENTARY AND VARIED EXPERTISE OF THE CHAPTER AUTHORS THIS PERSPECTIVE COVERS THE RE ENGINEERING PROCESSES FROM PLANNING TO EXECUTION SPLS ARE FAMILIES OF SYSTEMS THAT SHARE COMMON ASSETS ALLOWING A DISCIPLINED SOFTWARE REUSE THE ADOPTION OF SPL PRACTICES HAS SHOWN TO ENABLE SIGNIFICANT TECHNICAL AND ECONOMIC BENEFITS FOR THE COMPANIES THAT EMPLOY THEM HOWEVER SUCCESSFUL SPLS RARELY START FROM SCRATCH BUT INSTEAD THEY USUALLY START FROM A SET OF EXISTING SYSTEMS THAT MUST UNDERGO WELL DEFINED RE ENGINEERING PROCESSES TO UNLEASH NEW LEVELS OF PRODUCTIVITY AND COMPETITIVENESS PRACTITIONERS WILL BENEFIT FROM THE LESSONS LEARNED BY THE COMMUNITY CAPTURED IN THE ARRAY OF METHODOLOGICAL AND TECHNOLOGICAL ALTERNATIVES PRESENTED IN THE CHAPTERS OF THE HANDBOOK AND WILL GAIN THE CONFIDENCE FOR UNDERTAKING THEIR OWN RE ENGINEERING CHALLENGES RESEARCHERS AND EDUCATORS WILL FIND A VALUABLE SINGLE ENTRY POINT TO QUICKLY BECOME FAMILIAR WITH THE STATE OF THE ART ON THE TOPIC AND THE OPEN RESEARCH OPPORTUNITIES INCLUDING UNDERGRADUATE GRADUATE STUDENTS AND R D ENGINEERS WHO WANT TO HAVE A COMPREHENSIVE UNDERSTANDING OF TECHNIQUES IN REVERSE ENGINEERING AND RE ENGINEERING OF VARIABILITY RICH SOFTWARE SYSTEMS

THIS BOOK EXAMINES CRITICAL ISSUES INVOLVED WITH TELEMATICS SUCH AS VEHICULAR NETWORK INFRASTRUCTURE VEHICULAR NETWORK COMMUNICATION PROTOCOLS AND VEHICULAR SERVICES AND

APPLICATIONS PROVIDED BY PUBLISHER

SELECTED PEER REVIEWED PAPERS FROM THE 3RD INTERNATIONAL CONFERENCE ON MECHANICAL INFORMATION AND INDUSTRIAL ENGINEERING NOVEMBER 21 22 2014 WEIHAI CHINA

AUTOMOTIVE APPLICATIONS OF HARDWARE IN THE LOOP HIL SIMULATION SHINES A LIGHT ON HIL SIMULATION TESTING METHODOLOGY COMMONLY USED IN THE AUTOMOTIVE INDUSTRY FOR CONVENTIONAL ELECTRIFICATION AND AUTONOMY APPLICATIONS AND CAN SERVE AS AN INTRODUCTORY RESOURCE FOR COLLEGE STUDENTS LOOKING TO JOIN THE AUTOMOTIVE INDUSTRY OR EXPERIENCED TECHNICAL PROFESSIONALS WHO NEED A DEEPER UNDERSTANDING ON WHAT IS HIL SIMULATION WHAT ARE ITS BENEFITS AND HOW CAN IT BE USED IN THEIR RESPECTIVE ORGANIZATIONS

THIS BOOK CONSTITUTES THE PROCEEDINGS OF THE 16TH INTERNATIONAL CONFERENCE ON INTEGRATION OF CONSTRAINT PROGRAMMING ARTIFICIAL INTELLIGENCE AND OPERATIONS RESEARCH CPAIOR 2019 HELD IN THESSALONIKI GREECE IN JUNE 2019 THE 34 FULL PAPERS PRESENTED TOGETHER WITH 9 SHORT PAPERS WERE CAREFULLY REVIEWED AND SELECTED FROM 94 SUBMISSIONS THE CONFERENCE BRINGS TOGETHER INTERESTED RESEARCHERS FROM CONSTRAINT PROGRAMMING CP ARTIFICIAL INTELLIGENCE AI AND OPERATIONS RESEARCH OR TO PRESENT NEW TECHNIQUES OR APPLICATIONS AND TO PROVIDE AN OPPORTUNITY FOR RESEARCHERS IN ONE AREA TO LEARN ABOUT TECHNIQUES IN THE OTHERS A MAIN OBJECTIVE OF THIS CONFERENCE SERIES IS ALSO TO GIVE THESE RESEARCHERS THE OPPORTUNITY TO SHOW HOW THE INTEGRATION OF TECHNIQUES FROM DIFFERENT FIELDS CAN LEAD TO INTERESTING RESULTS ON LARGE AND COMPLEX PROBLEMS

THOROUGHLY UPDATED AND EXPANDED FUNDAMENTALS OF MEDIUM HEAVY DUTY COMMERCIAL VEHICLE SYSTEMS SECOND EDITION OFFERS COMPREHENSIVE COVERAGE OF BASIC CONCEPTS BUILDING UP TO ADVANCED INSTRUCTION ON THE LATEST TECHNOLOGY INCLUDING DISTRIBUTED ELECTRONIC CONTROL SYSTEMS ENERGY SAVING TECHNOLOGIES AND AUTOMATED DRIVER ASSISTANCE SYSTEMS NOW ORGANIZED BY OUTCOME BASED OBJECTIVES TO IMPROVE INSTRUCTIONAL CLARITY AND ADAPTABILITY AND PRESENTED IN A MORE READABLE FORMAT ALL CONTENT SEAMLESSLY ALIGNS WITH THE LATEST ASE MEDIUM HEAVY TRUCK PROGRAM REQUIREMENTS FOR MTST BACK COVER

REVISON OF COMPUTERS AS COMPONENTS WAYNE WOLF 2008

THIS BOOK PRESENTS 15 TUTORIAL LECTURES BY LEADING RESEARCHERS GIVEN AT THE 11TH EDITION OF THE INTERNATIONAL SCHOOL ON FORMAL METHODS FOR THE DESIGN OF COMPUTER COMMUNICATION AND SOFTWARE SYSTEMS SFM 2011 HELD IN BERTINORO ITALY IN JUNE 2011 SFM 2011 WAS DEVOTED TO FORMAL METHODS FOR ETERNAL NETWORKED SOFTWARE SYSTEMS AND COVERED SEVERAL TOPICS INCLUDING FORMAL FOUNDATIONS FOR THE INTER OPERABILITY OF SOFTWARE SYSTEMS APPLICATION LAYER AND MIDDLEWARE LAYER DYNAMIC CONNECTOR SYNTHESIS INTERACTION BEHAVIOR MONITORING AND LEARNING AND QUALITY ASSURANCE OF CONNECTED SYSTEMS THE SCHOOL WAS HELD IN COLLABORATION WITH THE RESEARCHERS OF THE EU FUNDED PROJECTS CONNECT AND ETERNALS THE PAPERS ARE ORGANIZED INTO SIX PARTS I ARCHITECTURE AND INTEROPERABILITY II FORMAL FOUNDATIONS FOR CONNECTORS III CONNECTOR SYNTHESIS IV LEARNING AND MONITORING V DEPENDABILITY ASSURANCE AND VI TRUSTWORTHY ETERNAL SYSTEMS VIA EVOLVING SOFTWARE

BUY SOLVED SERIES OF ENGINEERING CHEMISTRY E BOOK FOR B TECH I II SEMESTER STUDENTS

COMMON TO ALL OF APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY KTU KERALA

ADVANCED AUTOMOTIVE ENGINE PERFORMANCE IS DESIGNED TO PREPARE NOVICE TECHNICIANS FOR THE CHALLENGE OF DIAGNOSING TODAY S HIGHLY TECHNICAL ELECTRONIC ENGINE CONTROLS USING THIS CURRICULUM LEARNERS WILL GAIN FAMILIARITY WITH THE OPERATION AND VARIATIONS OF EMISSIONS SYSTEMS AND ASSOCIATED ONBOARD MONITORS THE CURRICULUM ESPECIALLY FOCUSES ON APPLYING DIAGNOSTIC STRATEGY TO AND PERFORMING SERVICE PROCEDURES FOR EMISSIONS SYSTEMS FAULTS LEARNERS WILL ALSO DEVELOP AN UNDERSTANDING OF IM TESTING AND AN ABILITY TO INTERPRET IM TEST REPORTS TO AID IN DIAGNOSIS THIS OBJECTIVE BASED CURRICULUM WILL PREPARE LEARNERS FOR THE CHALLENGES OF SERVICING ENGINE MANAGEMENT SYSTEMS IN THE SHOP TODAY THIS IS A COMPLETE CURRICULUM SOLUTION FOR ADVANCED AUTOMOTIVE ENGINE PERFORMANCE ONLINE COURSEWARE IS AVAILABLE AND IS RICH IN VIDEO AND ANIMATION TO SUPPORT UNDERSTANDING OF COMPLEX SYSTEMS THIS SOLUTION IS AVAILABLE IN PRINT PLUS DIGITAL OR DIGITAL ONLY OFFERINGS PROVIDING EBOOK AND ONLINE COURSE PAIRING WITH MOBILE FRIENDLY ADAPTABILITY COMPLETE TESTS TASKSHEETS AND INSTRUCTOR RESOURCES MAKE THIS

CURRICULUM EASY TO ADOPT AND INTEGRATE INTO ANY AUTOMOTIVE PROGRAM

THIS TEXTBOOK WILL HELP YOU LEARN ALL THE SKILLS YOU NEED TO PASS ALL VEHICLE ELECTRICAL AND ELECTRONIC SYSTEMS COURSES AND QUALIFICATIONS AS ELECTRICAL AND ELECTRONIC SYSTEMS BECOME INCREASINGLY MORE COMPLEX AND FUNDAMENTAL TO THE WORKINGS OF MODERN VEHICLES UNDERSTANDING THESE SYSTEMS IS ESSENTIAL FOR AUTOMOTIVE TECHNICIANS FOR STUDENTS NEW TO THE SUBJECT THIS BOOK WILL HELP TO DEVELOP THIS KNOWLEDGE BUT WILL ALSO ASSIST EXPERIENCED TECHNICIANS IN KEEPING UP WITH RECENT TECHNOLOGICAL ADVANCES THIS NEW EDITION INCLUDES INFORMATION ON DEVELOPMENTS IN PASS THROUGH TECHNOLOGY MULTIPLEXING AND ENGINE CONTROL SYSTEMS IN FULL COLOUR AND COVERING THE LATEST COURSE SPECIFICATIONS THIS IS THE GUIDE THAT NO STUDENT ENROLLED ON AN AUTOMOTIVE MAINTENANCE AND REPAIR COURSE SHOULD BE WITHOUT DESIGNED TO MAKE LEARNING EASIER THIS BOOK CONTAINS PHOTOGRAPHS FLOW CHARTS QUICK REFERENCE TABLES OVERVIEW DESCRIPTIONS AND STEP BY STEP INSTRUCTIONS CASE STUDIES TO HELP YOU PUT THE PRINCIPLES COVERED INTO A REAL LIFE CONTEXT USEFUL MARGIN FEATURES THROUGHOUT INCLUDING DEFINITIONS KEY FACTS AND SAFETY FIRST CONSIDERATIONS

INFORMATION SCIENCE AND ELECTRONIC ENGINEERING IS A COLLECTION OF CONTRIBUTIONS DRAWN FROM THE INTERNATIONAL CONFERENCE OF ELECTRONIC ENGINEERING AND INFORMATION SCIENCE ICEEIS 2016 HELD JANUARY 4 5 2016 IN HARBIN CHINA THE PAPERS IN THIS PROCEEDINGS VOLUME COVER VARIOUS TOPICS INCLUDING ELECTRONIC ENGINEERING INFORMATION SCIENCE AND INFORMATION TECHNOLOGIES COMPUTATIONAL MATHEMATICS AND DATA MINING IMAGE PROCESSING AND COMPUTER VISION COMMUNICATION AND SIGNAL PROCESSING CONTROL AND AUTOMATION OF MECHATRONICS METHODS DEVICES AND SYSTEMS FOR MEASUREMENT AND MONITORING ENGINEERING OF WEAPON SYSTEMS MECHANICAL ENGINEERING AND MATERIAL SCIENCE TECHNOLOGIES OF PROCESSING THE CONTENT OF THIS PROCEEDINGS VOLUME WILL BE OF INTEREST TO PROFESSIONALS AND ACADEMICS IN THE FIELDS OF ELECTRONIC ENGINEERING COMPUTER SCIENCE AND MECHANICAL ENGINEERING

THE MONOGRAPH BEGINS WITH A SYSTEMATIC INTRODUCTION OF CHAOS AND CHAOS SYNCHRONIZATION AND THEN EXTENDS TO THE METHODOLOGIES AND TECHNOLOGIES IN SECURE COMMUNICATION SYSTEM DESIGN AND IMPLEMENTATION THE AUTHOR COMBINES THEORETICAL

FRAMEWORKS WITH EMPIRICAL STUDIES MAKING THE BOOK A PRATICAL REFERENCE FOR BOTH ACADEMICS AND INDUSTRIAL ENGINEERS

THESE VOLUMES BRING TOGETHER FROM ALL OVER THE WORLD PAPERS FROM SPECIALISTS WORKING IN ALL THE DIVERSE FORMS OF ENERGY DERIVED FROM THE SUN EXPERTS IN ALL FIELDS OF RESEARCH IN SOLAR AND RENEWABLE ENERGY HAVE ALSO CONTRIBUTED AN ADDED FEATURE THE LATEST RESEARCH AND DEVELOPMENTS IN RELATED AREAS SUCH AS WIND ENERGY BIOMASS PHOTOVOLTAICS AND ENERGY CONVERSION EMPHASIS IS PLACED ON THE MANY SOLUTIONS SOLAR AND RENEWABLE ENERGY OFFERS TO THE GLOBAL ENERGY PROBLEM AND THE DIFFERENT WAYS OF COMBINING SOLAR AND RENEWABLE ENERGY TO SOLVE THESE PROBLEMS THE WORK SHOULD STIMULATE READERS TO CONSIDER THE BROADER HORIZONS OF RENEWABLE ENERGY ENERGY CONSERVATION AND THE IMPACT OF NEW TECHNOLOGIES ON SOCIETY FROM THE SMALL REMOTE VILLAGE TO THE MODERN METROPOLIS

UPDATED WITH THE 2000 RULES THE FOURTH EDITION PROVIDES SHIPYARD ELECTRICIANS AND ELECTRICAL DESIGNERS WITH THE STEP BY STEP INSTRUCTION THEY NEED TO DESIGN AND INSTALL ELECTRICAL SYSTEMS ON MARINE INSTALLATIONS WHETHER SHIPBOARD OR OFFSHORE WRITTEN FOR NOVICES THIS WORKBOOK OFFERS THREE MODULES OF SKILL LEVEL FUNDAMENTALS INTERMEDIATE AND ADVANCED WITHIN EACH MODULE THE AUTHOR PROVIDES FIVE LESSONS FILLED WITH DETAILED OUTLINES DIAGRAMS CHARTS FORMULAS EXAMPLES SOLUTIONS BLANK WORKSHEETS AND STUDY GUIDES FOR INCREASED UNDERSTANDING SUITABLE FOR USE AS EITHER A COURSE TEXT OR AS A SELF HELP GUIDE THIS WORKBOOK EXAMINES CURRENT RULES AND REGULATIONS OF THE AMERICAN BUREAU OF SHIPPING UNITED STATES COAST GUARD NATIONAL ELECTRONIC CODE AND INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS 45 USING THIS INFORMATION READERS WILL ACQUIRE A BASIC KNOWLEDGE OF TASK REQUIREMENTS INCLUDING BASIC SHIP CONSTRUCTION AS WELL AS POWER AND LIGHTING SYSTEM BUILDING AND INSTALLATION FEATURING THE EDITORIAL REVISIONS OF THE ABS RULES FOR BUILDING AND CLASSING STEEL VESSELS THIS EDITION ADDRESSES CHANGES MADE TO THE AMERICAN BUREAU OF SHIPPING S ABS RULES INCLUDING THE RE NUMBERING AND RE ORGANIZATION OF ALL SECTION NUMBERS FOR EASE OF REFERENCE THE AUTHOR INCLUDES A CHART OF BOTH THE NEW ABS RULES AND THE OLD ABS RULES USED THROUGHOUT THE WORKBOOK

DESIGN SIMULATE AND PROGRAM INTERACTIVE ROBOTS KEY FEATURES DESIGN SIMULATE BUILD AND PROGRAM AN INTERACTIVE AUTONOMOUS MOBILE ROBOT LEVERAGE THE POWER OF ROS GAZEBO AND PYTHON TO ENHANCE YOUR ROBOTIC SKILLS A HANDS ON GUIDE TO CREATING AN AUTONOMOUS MOBILE ROBOT WITH THE HELP OF ROS AND PYTHON BOOK DESCRIPTIONROBOT OPERATING SYSTEM ROS IS ONE OF THE MOST POPULAR ROBOTICS SOFTWARE FRAMEWORKS IN RESEARCH AND INDUSTRY IT HAS VARIOUS FEATURES FOR IMPLEMENTING DIFFERENT CAPABILITIES IN A ROBOT WITHOUT IMPLEMENTING THEM FROM SCRATCH THIS BOOK STARTS BY SHOWING YOU THE FUNDAMENTALS OF ROS SO YOU UNDERSTAND THE BASICS OF DIFFERENTIAL ROBOTS THEN YOU LL LEARN ABOUT ROBOT MODELING AND HOW TO DESIGN AND SIMULATE IT USING ROS MOVING ON WE LL DESIGN ROBOT HARDWARE AND INTERFACING ACTUATORS THEN YOU LL LEARN TO CONFIGURE AND PROGRAM DEPTH SENSORS AND LIDARS USING ROS FINALLY YOU LL CREATE A GUI FOR YOUR ROBOT USING THE QT FRAMEWORK BY THE END OF THIS TUTORIAL YOU LL HAVE A CLEAR IDEA OF HOW TO INTEGRATE AND ASSEMBLE EVERYTHING INTO A ROBOT AND HOW TO BUNDLE THE SOFTWARE PACKAGE WHAT YOU WILL LEARN DESIGN A DIFFERENTIAL ROBOT FROM SCRATCH MODEL A DIFFERENTIAL ROBOT USING ROS AND URDF SIMULATE A DIFFERENTIAL ROBOT USING ROS AND GAZEBO DESIGN ROBOT HARDWARE ELECTRONICS INTERFACE ROBOT ACTUATORS WITH EMBEDDED BOARDS EXPLORE THE INTERFACING OF DIFFERENT 3D DEPTH CAMERAS IN ROS CREATE A GUI FOR ROBOT CONTROL WHO THIS BOOK IS FOR THIS BOOK IS FOR THOSE WHO ARE CONDUCTING RESEARCH IN MOBILE ROBOTICS AND AUTONOMOUS NAVIGATION AS WELL AS THE ROBOTICS RESEARCH DOMAIN THIS BOOK IS ALSO FOR THE ROBOT HOBBYIST COMMUNITY YOU RE EXPECTED TO HAVE A BASIC UNDERSTANDING OF LINUX COMMANDS AND PYTHON

THIS BOOK CONSTITUTES REVISED LECTURES FROM THE 11TH SYMPOSIUM ON FORMAL METHODS FOR COMPONENTS AND OBJECT FMCO 2012 HELD IN BERTINORO ITALY IN SEPTEMBER 2012 THE 8 LECTURES FEATURED IN THIS VOLUME ARE BY WORLD RENOWNED EXPERTS WITHIN THE AREA OF FORMAL MODELS FOR OBJECTS AND COMPONENTS THE BOOK PROVIDES A UNIQUE COMBINATION OF IDEAS ON SOFTWARE ENGINEERING AND FORMAL METHODS WHICH REFLECT THE EXPANDING BODY OF KNOWLEDGE ON MODERN SOFTWARE SYSTEMS

IN PRESENTING THIS TREATMENT OF HOMOLOGICAL ALGEBRA IT IS A PLEASURE TO ACKNOWLEDGE

THE HELP AND ENCOURAGEMENT WHICH I HAVE HAD FROM ALL SIDES HOMOLOGICAL ALGEBRA

AROSE FROM MANY SOURCES IN ALGEBRA AND TOPOLOGY DECISIVE EXAMPLES CAME FROM THE STUDY OF GROUP EXTENSIONS AND THEIR FACTOR SETS A SUBJECT I LEARNED IN JOINT WORK WITH OTTO SCHIL LING A FURTHER DEVELOPMENT OF HOMOLOGICAL IDEAS WITH A VIEW TO THEIR TOPOLOGICAL APPLICATIONS CAME IN MY LONG COLLABORATION WITH SAMUEL ELLENBERG TO BOTH COLLABORATORS ESPECIAL THANKS FOR MANY YEARS THE AIR FORCE OFFICE OF SCIENTIFIC RESEARCH SUPPORTED MY RESEARCH PROJECTS ON VARIOUS SUBJECTS NOW SUMMARIZED HERE IT IS A PLEASURE TO ACKNOWLEDGE THEIR LIVELY UNDERSTANDING OF BASIC SCIENCE BOTH REINHOLD BAER AND JOSEF SCHMID READ AND COMMENTED ON MY ENTIRE MANUSCRIPT THEIR ADVICE HAS LED TO MANY IMPROVEMENTS ANDERS KOCK AND JACQUES RIGUET HAVE READ THE ENTIRE GALLEY PROOF AND CAUGHT MANY SLIPS AND OBSCURITIES AMONG THE OTHERS WHOSE SUG GESTIONS HAVE SERVED ME WELL I NOTE FRANK ADAMS LOUIS AUSLANDER WILFRED COCKCROFT ALBRECHT DOLD GEOFFREY HORROCKS FRIED RICH KASCH JOHANN LEICHT ARUNAS LIULEVICIUS JOHN MOORE DIE TER PUPPE JOSEPH YAO AND A NUMBER OF MY CURRENT STUDENTS AT THE UNIVERSITY OF CHICAGO NOT TO M NTION THE AUDITORS OF MY LECTURES AT CHICAGO HEIDELBERG BONN FRANKFURT AND AARHUS MY WIFE DOROTHY HAS CHEERFULLY TYPED MORE VERSIONS OF MORE CHAPTERS THAN SHE WOULD LIKE TO COUNT MESSRS

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