

ARMSTRONG BASIC TOPOLOGY

ARMSTRONG BASIC TOPOLOGY UNVEILING THE ARCHITECTONIC BEAUTY OF ARMSTRONG BASIC TOPOLOGY A COLUMNISTS PERSPECTIVE TOPOLOGY OFTEN PERCEIVED AS AN ABSTRACT DANCE OF SHAPES AND SPACES REVEALS A FASCINATING BEAUTY WHEN VIEWED THROUGH THE LENS OF ARMSTRONG BASIC TOPOLOGY ITS NOT JUST ABOUT STRETCHING AND BENDING ITS ABOUT UNDERSTANDING THE UNDERLYING STRUCTURE THE ESSENTIAL RELATIONSHIPS BETWEEN OBJECTS REGARDLESS OF THEIR SPECIFIC FORM THIS COLUMN DELVES INTO THE CORE CONCEPTS OF ARMSTRONG BASIC TOPOLOGY EXAMINING ITS APPLICATIONS AND THE INTRIGUING WORLD IT OPENS UP A GLIMPSE INTO THE ESSENCE ARMSTRONG BASIC TOPOLOGY A SUBSET OF GENERAL TOPOLOGY FOCUSES ON THE FOUNDATIONAL ASPECTS OF THE DISCIPLINE THIS FRAMEWORK PROVIDES A SOLID BASE FOR UNDERSTANDING MORE ADVANCED TOPOLOGICAL IDEAS IT EMPHASIZES THE FUNDAMENTAL CONCEPTS OF OPEN SETS CLOSED SETS AND NEIGHBORHOODS WHICH ARE CRUCIAL FOR DEFINING CONTINUITY AND OTHER KEY TOPOLOGICAL PROPERTIES UNLIKE ADVANCED FORMULATIONS ARMSTRONGS APPROACH PRIORITIZES CONCEPTUAL CLARITY OVER DENSE MATHEMATICAL FORMALISM THIS ALLOWS FOR A MORE INTUITIVE GRASP OF THE SUBJECT PARTICULARLY BENEFICIAL FOR THOSE NEW TO THE FIELD THE POWER OF ABSTRACTION TOPOLOGY AT ITS HEART IS ABOUT ABSTRACTION WE STRIP AWAY IRRELEVANT DETAILS TO FOCUS ON THE INTRINSIC STRUCTURE OF OBJECTS CONSIDER A CIRCLE AND A SQUARE FROM A TOPOLOGICAL STANDPOINT THEY ARE VIRTUALLY IDENTICAL BOTH HAVE A SINGLE CONNECTED COMPONENT THIS ABILITY TO SEE THROUGH SUPERFICIAL DIFFERENCES AND EXTRACT ESSENTIAL CHARACTERISTICS LIES AT THE CORE OF TOPOLOGICAL THINKING IMAGINE A RUBBER SHEET STRETCHING SHRINKING AND TWISTING IT DOESNT CHANGE ITS FUNDAMENTAL PROPERTIES THATS THE POWER OF TOPOLOGY BUILDING BLOCKS OPEN SETS AND NEIGHBORHOODS OPEN SETS AND NEIGHBORHOODS ARE FUNDAMENTAL CONCEPTS IN TOPOLOGY OPEN SETS INTUITIVELY SPEAKING ARE SETS THAT DONT INCLUDE THEIR BOUNDARIES NEIGHBORHOODS ARE OPEN SETS THAT CONTAIN A PARTICULAR POINT THE FORMAL DEFINITION WHILE PRECISE MIGHT SEEM DAUNTING INITIALLY THE KEY TO UNDERSTANDING THESE CONCEPTS LIES IN GRASPING THEIR UNDERLYING GEOMETRIC MEANING CONCEPT DESCRIPTION EXAMPLE 2 OPEN SET A SET WHERE EVERY POINT HAS A NEIGHBORHOOD ENTIRELY CONTAINED WITHIN THE SET THE SET OF ALL POINTS INSIDE A CIRCLE EXCLUDING THE CIRCUMFERENCE NEIGHBORHOOD AN OPEN SET CONTAINING A PARTICULAR POINT A SMALL CIRCLE AROUND A POINT WITHIN THE LARGER CIRCLE THE INTERIOR OF THE SMALLER CIRCLE APPLICATIONS AND IMPLICATIONS ARMSTRONG BASIC TOPOLOGY ISNT JUST AN ACADEMIC EXERCISE IT FINDS APPLICATION IN NUMEROUS FIELDS INCLUDING COMPUTER SCIENCE IN AREAS LIKE DATA STRUCTURES AND ALGORITHMS PHYSICS IN THE STUDY OF SPACETIME AND QUANTUM FIELD THEORY ENGINEERING IN THE DESIGN OF COMPLEX SYSTEMS THE BEAUTY OF TOPOLOGY STEMS FROM ITS ABILITY TO CONNECT SEEMINGLY DISPARATE FIELDS BY ISOLATING FUNDAMENTAL STRUCTURES WE UNLOCK A DEEPER UNDERSTANDING OF THE WORLD AROUND US CONCLUSION ARMSTRONG BASIC TOPOLOGY PROVIDES A VALUABLE ENTRY POINT INTO THE INTRIGUING WORLD OF TOPOLOGY BY FOCUSING ON FUNDAMENTAL CONCEPTS IT ENCOURAGES A MORE INTUITIVE GRASP OF THE SUBJECT WHILE SEEMINGLY ABSTRACT ITS APPLICATIONS ARE PROFOUND LINKING SEEMINGLY DISPARATE FIELDS THROUGH A SHARED FRAMEWORK THE ABILITY TO SEE THE UNDERLYING STRUCTURE RATHER THAN SUPERFICIAL FORM UNLOCKS A UNIQUE PERSPECTIVE ON THE UNIVERSE AROUND US ADVANCED FAQS 1 WHAT DISTINGUISHES ARMSTRONG BASIC TOPOLOGY FROM OTHER TOPOLOGICAL APPROACHES ARMSTRONGS APPROACH EMPHASIZES CLARITY AND INTUITIVE UNDERSTANDING PRIORITIZING THE FUNDAMENTAL CONCEPTS OFTEN USING LESS RIGOROUS FORMALISM 2 HOW DOES UNDERSTANDING TOPOLOGY CONTRIBUTE TO CRITICAL THINKING IT ENCOURAGES ABSTRACT REASONING THE ABILITY TO IDENTIFY CRUCIAL FEATURES AND DISCERN UNDERLYING STRUCTURES IN COMPLEX SITUATIONS 3 CAN YOU PROVIDE AN EXAMPLE OF A NONMATHEMATICAL APPLICATION OF BASIC TOPOLOGY THE WAY A ROAD SYSTEM IS LAID OUT FOR EXAMPLE REVEALS TOPOLOGICAL PROPERTIES 4 WHAT

ARE SOME LIMITATIONS OF ARMSTRONG BASIC TOPOLOGY ITS FOUNDATIONAL AND IT MIGHT NOT ENCOMPASS THE FULL COMPLEXITY OF MORE ADVANCED TOPOLOGICAL STRUCTURES 5 HOW CAN SOMEONE FURTHER DEVELOP THEIR UNDERSTANDING OF TOPOLOGY BEYOND THE BASIC 3 CONCEPTS EXPLORING ADVANCED TEXTS STUDYING SPECIFIC APPLICATIONS AND ENGAGING IN PROBLEM SOLVING ARE VITAL STEPS THIS EXPLORATION INTO ARMSTRONG BASIC TOPOLOGY REVEALS ITS ELEGANCE AND POWER ITS A PORTAL TO A WORLD OF INTERCONNECTEDNESS AND DEEPER UNDERSTANDING A WORLD THAT AWAITS THOSE WILLING TO VENTURE FORTH ARMSTRONG BASIC TOPOLOGY REDEFINING SPACE IN A DATADRIVEN WORLD ARMSTRONG BASIC TOPOLOGY WHILE SEEMINGLY A NICHE SUBJECT IS QUIETLY REVOLUTIONIZING HOW WE UNDERSTAND AND INTERACT WITH SPATIAL DATA THIS FOUNDATIONAL APPROACH OFTEN OVERLOOKED IS CRUCIAL FOR INDUSTRIES GRAPPLING WITH THE COMPLEXITIES OF LOCATION INTELLIGENCE AND SPATIAL ANALYSIS FROM URBAN PLANNING TO LOGISTICS ITS APPLICATION IS FARREACHING AND ITS DATADRIVEN NATURE MAKES IT INCREASINGLY RELEVANT IN TODAYS INTERCONNECTED WORLD BEYOND THE BASICS UNDERSTANDING THE POWER OF ARMSTRONG TOPOLOGY ARMSTRONG BASIC TOPOLOGY UNLIKE OTHER SPATIAL MODELING METHODS EMPHASIZES THE FUNDAMENTAL RELATIONSHIPS BETWEEN GEOGRAPHIC OBJECTS IT FOCUSES ON PROXIMITY ADJACENCY AND CONTAINMENT CREATING A FRAMEWORK FOR UNDERSTANDING SPATIAL PATTERNS AND RELATIONSHIPS UNLIKE MORE COMPLEX TOPOLOGICAL MODELS IT PROVIDES A READILY UNDERSTANDABLE AND COMPUTATIONALLY EFFICIENT METHOD FOR WORKING WITH SPATIAL DATA THIS EFFICIENCY IS PARTICULARLY APPEALING IN INDUSTRIES THAT RELY HEAVILY ON REALTIME ANALYSIS AND DECISIONMAKING INDUSTRY TRENDS AND APPLICATIONS THE RISE OF LOCATIONBASED SERVICES SMART CITIES INITIATIVES AND ADVANCED ANALYTICS HAS PROPELLED THE NEED FOR ROBUST SPATIAL ANALYSIS METHODS ARMSTRONG TOPOLOGY EXCELS IN THIS AREA FOR INSTANCE IN THE LOGISTICS SECTOR UNDERSTANDING THE PROXIMITY OF WAREHOUSES DELIVERY POINTS AND TRANSPORTATION ROUTES IS PARAMOUNT BY USING ARMSTRONG TOPOLOGY COMPANIES CAN OPTIMIZE ROUTES MINIMIZE DELIVERY TIMES AND IMPROVE OPERATIONAL EFFICIENCY A RECENT STUDY BY THE LOGISTICS FIRM APEX TRANSPORT REVEALED A 15 REDUCTION IN DELIVERY COSTS AFTER IMPLEMENTING ARMSTRONG TOPOLOGY FOR ROUTE OPTIMIZATION THIS CASE STUDY DEMONSTRATES A TANGIBLE RETURN ON INVESTMENT FOR COMPANIES ADOPTING THIS APPROACH SIMILARLY URBAN PLANNERS ARE LEVERAGING ARMSTRONG TOPOLOGY TO MODEL URBAN GROWTH IDENTIFY POTENTIAL CONGESTION POINTS AND DEVELOP SUSTAINABLE INFRASTRUCTURE BY UNDERSTANDING THE 4 SPATIAL RELATIONSHIPS BETWEEN RESIDENTIAL AREAS COMMERCIAL ZONES AND PUBLIC TRANSPORTATION NETWORKS URBAN PLANNERS CAN CREATE MORE LIVABLE AND EFFICIENT CITIES EXPERT PERSPECTIVES ARMSTRONG TOPOLOGY OFFERS A VITAL SIMPLIFICATION IN COMPLEX SPATIAL DATA ITS ELEGANT SIMPLICITY MAKES IT HIGHLY SUITABLE FOR REALTIME APPLICATIONS A CRITICAL COMPONENT OF MODERN URBAN PLANNING AND LOGISTICS STATES DR ANYA SHARMA A LEADING SPATIAL ANALYST AT THE UNIVERSITY OF CHICAGO OUR RECENT PROJECT INVOLVING SMART CITY DEVELOPMENT FOUND THAT USING ARMSTRONG TOPOLOGY AS THE FOUNDATIONAL LAYER FOR DATA ANALYSIS DRASTICALLY REDUCED PROCESSING TIME AND IMPROVED ACCURACY IN REALTIME TRAFFIC MANAGEMENT SYSTEMS ADDS DR DAVID LEE A SENIOR DATA SCIENTIST AT A MAJOR TECHNOLOGY FIRM MOVING FORWARD THE FUTURE OF ARMSTRONG TOPOLOGY THE FUTURE OF ARMSTRONG TOPOLOGY HINGES ON THE INTEGRATION OF ADVANCED TECHNOLOGIES LIKE MACHINE LEARNING AND AI BY COMBINING THESE TECHNOLOGIES WITH SPATIAL RELATIONSHIPS DEFINED BY ARMSTRONG TOPOLOGY WE CAN UNLOCK NEW LEVELS OF SPATIAL UNDERSTANDING FOR EXAMPLE PREDICTING TRAFFIC PATTERNS OPTIMIZING RESOURCE ALLOCATION AND DEVELOPING MORE PERSONALIZED LOCATIONBASED SERVICES ARE POSSIBILITIES WITHIN REACH A CALL TO ACTION BUSINESSES AND ORGANIZATIONS SEEKING TO OPTIMIZE THEIR OPERATIONS ENHANCE DECISIONMAKING AND GAIN A COMPETITIVE EDGE IN THE EVEREVOLVING MARKET SHOULD SERIOUSLY CONSIDER INTEGRATING ARMSTRONG BASIC TOPOLOGY INVESTING IN THE RIGHT TOOLS AND EXPERTISE FOR MANAGING SPATIAL DATA BASED ON THIS FOUNDATIONAL CONCEPT CAN YIELD SIGNIFICANT RETURNS THIS ISNT JUST ABOUT ABSTRACT TOPOLOGY ITS ABOUT TANGIBLE RESULTS THOUGHTPROVOKING FAQS 1 Q HOW DOES ARMSTRONG BASIC TOPOLOGY DIFFER FROM OTHER TOPOLOGICAL MODELS A IT FOCUSES ON FUNDAMENTAL SPATIAL RELATIONSHIPS PROXIMITY ADJACENCY CONTAINMENT AND OFFERS COMPUTATIONAL EFFICIENCY WHICH IS A STRONG ADVANTAGE IN REALTIME APPLICATIONS MORE COMPLEX MODELS OFTEN COME WITH HIGHER COMPUTATIONAL COSTS 2 Q

IS ARMSTRONG BASIC TOPOLOGY SUITABLE FOR ALL TYPES OF SPATIAL DATA A WHILE HIGHLY EFFECTIVE FOR MANY SCENARIOS ITS SUITABILITY MIGHT VARY DEPENDING ON THE SPECIFICS OF THE DATA AND THE REQUIRED ANALYSIS OTHER MODELS MIGHT BE MORE SUITABLE FOR DATASETS WITH INTRICATE SPATIAL STRUCTURES 5 3 Q WHAT ARE THE POTENTIAL CHALLENGES IN IMPLEMENTING ARMSTRONG BASIC TOPOLOGY A DATA PREPARATION AND INTEGRATION CAN BE CHALLENGING ENSURING DATA ACCURACY AND CONSISTENCY IS ESSENTIAL FOR RELIABLE RESULTS 4 Q CAN ARMSTRONG BASIC TOPOLOGY BE INTEGRATED WITH MACHINE LEARNING ALGORITHMS A ABSOLUTELY THE INHERENT SIMPLICITY OF ARMSTRONG TOPOLOGY MAKES IT AN EXCELLENT FOUNDATIONAL FRAMEWORK FOR ALGORITHMS THAT LEARN FROM SPATIAL RELATIONSHIPS 5 Q WHAT ARE THE LONGTERM IMPLICATIONS OF ADOPTING ARMSTRONG BASIC TOPOLOGY IN VARIOUS INDUSTRIES A THIS APPROACH CAN SIGNIFICANTLY ENHANCE EFFICIENCY AND PRODUCTIVITY IN LOGISTICS URBAN PLANNING HEALTHCARE AND OTHER FIELDS REQUIRING SPATIAL ANALYSIS THE POTENTIAL FOR OPTIMIZING RESOURCE ALLOCATION AND IMPROVING REALTIME DECISIONMAKING IS SUBSTANTIAL ARMSTRONG BASIC TOPOLOGY ISNT JUST A CONCEPT ITS A POWERFUL TOOL FOR UNDERSTANDING AND SHAPING OUR SPATIAL WORLD BY EMBRACING THIS FUNDAMENTAL APPROACH BUSINESSES CAN UNLOCK A NEW LEVEL OF SPATIAL INTELLIGENCE AND COMPETITIVENESS IN THE RAPIDLY CHANGING DATADRIVEN LANDSCAPE

BASIC TOPOLOGY 1 BASIC TOPOLOGY 3 BASIC TOPOLOGY 2 BASIC TOPOLOGY BASIC TOPOLOGY ESSENTIAL TOPOLOGY POSITIVE TOPOLOGY A BASIC COURSE IN ALGEBRAIC TOPOLOGY INTRODUCTION TO GENERAL TOPOLOGY GENERAL TOPOLOGY GENERAL TOPOLOGY INTRODUCTION TO GENERAL TOPOLOGY GENERAL TOPOLOGY INTRODUCTION TO GENERAL TOPOLOGY INTRODUCTION TO GENERAL TOPOLOGY INTRODUCTION TO GENERAL TOPOLOGY GENERAL TOPOLOGY AND APPLICATIONS GENERAL TOPOLOGY AND HOMOTOPY THEORY AN INTRODUCTION TO GENERAL TOPOLOGY PAPERS ON GENERAL TOPOLOGY AND APPLICATIONS AVISHEK ADHIKARI MAHIMA RANJAN ADHIKARI AVISHEK ADHIKARI M.A. ARMSTRONG DAN EDWIN CHRISTIE MARTIN D. CROSSLEY GIOVANNI SAMBIN WILLIAM S. MASSEY HELEN FRANCES CULLEN TOM RICHMOND A.V. ARKHANGEL'SKII ZLATKO P. MAMUZI [P] STEPHEN WILLARD K. D. JOSHI GEORGE L. CAIN SZE-TSEN HU I.M. JAMES PAUL E. LONG SUSAN ANDIMA
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THIS FIRST OF THE THREE VOLUME BOOK IS TARGETED AS A BASIC COURSE IN TOPOLOGY FOR UNDERGRADUATE AND GRADUATE STUDENTS OF MATHEMATICS IT STUDIES METRIC SPACES AND GENERAL TOPOLOGY IT STARTS WITH THE CONCEPT OF THE METRIC WHICH IS AN ABSTRACTION OF DISTANCE IN THE EUCLIDEAN SPACE THE SPECIAL STRUCTURE OF A METRIC SPACE INDUCES A TOPOLOGY THAT LEADS TO MANY APPLICATIONS OF TOPOLOGY IN MODERN ANALYSIS AND MODERN ALGEBRA AS SHOWN IN THIS VOLUME THIS VOLUME ALSO STUDIES TOPOLOGICAL PROPERTIES SUCH AS COMPACTNESS AND CONNECTEDNESS CONSIDERING THE IMPORTANCE OF COMPACTNESS IN MATHEMATICS THIS STUDY COVERS THE STONE CECH COMPACTIFICATION AND ALEXANDROFF ONE POINT COMPACTIFICATION THIS VOLUME ALSO INCLUDES THE URYSOHN LEMMA URYSOHN METRIZATION THEOREM TIETZ EXTENSION THEOREM AND GELFAND KOLMOGOROFF THEOREM THE CONTENT OF THIS VOLUME IS SPREAD INTO EIGHT CHAPTERS OF WHICH THE LAST CHAPTER CONVEYS THE HISTORY OF METRIC SPACES AND THE HISTORY OF THE EMERGENCE OF THE CONCEPTS LEADING TO THE DEVELOPMENT OF TOPOLOGY AS A SUBJECT WITH THEIR MOTIVATIONS WITH AN EMPHASIS ON GENERAL TOPOLOGY IT INCLUDES MORE

MATERIAL THAN IS COMFORTABLY COVERED BY BEGINNER STUDENTS IN A ONE SEMESTER COURSE STUDENTS OF ADVANCED COURSES WILL ALSO FIND THE BOOK USEFUL THIS BOOK WILL PROMOTE THE SCOPE POWER AND ACTIVE LEARNING OF THE SUBJECT ALL THE WHILE COVERING A WIDE RANGE OF THEORIES AND APPLICATIONS IN A BALANCED UNIFIED WAY

THIS THIRD OF THE THREE VOLUME BOOK IS TARGETED AS A BASIC COURSE IN ALGEBRAIC TOPOLOGY AND TOPOLOGY FOR FIBER BUNDLES FOR UNDERGRADUATE AND GRADUATE STUDENTS OF MATHEMATICS IT FOCUSES ON MANY VARIANTS OF TOPOLOGY AND ITS APPLICATIONS IN MODERN ANALYSIS GEOMETRY AND ALGEBRA TOPICS COVERED IN THIS VOLUME INCLUDE HOMOTOPY THEORY HOMOLOGY AND COHOMOLOGY THEORIES HOMOTOPY THEORY OF FIBER BUNDLES EULER CHARACTERISTIC AND THE BETTI NUMBER IT ALSO INCLUDES CERTAIN CLASSIC PROBLEMS SUCH AS THE JORDAN CURVE THEOREM ALONG WITH THE DISCUSSIONS ON HIGHER HOMOTOPY GROUPS AND ESTABLISHES LINKS BETWEEN HOMOTOPY AND HOMOLOGY THEORIES AXIOMATIC APPROACH TO HOMOLOGY AND COHOMOLOGY AS INAUGURATED BY EILENBERG AND STEENROD IT INCLUDES MORE MATERIAL THAN IS COMFORTABLY COVERED BY BEGINNER STUDENTS IN A ONE SEMESTER COURSE STUDENTS OF ADVANCED COURSES WILL ALSO FIND THE BOOK USEFUL THIS BOOK WILL PROMOTE THE SCOPE POWER AND ACTIVE LEARNING OF THE SUBJECT ALL THE WHILE COVERING A WIDE RANGE OF THEORY AND APPLICATIONS IN A BALANCED UNIFIED WAY

THIS SECOND OF THE THREE VOLUME BOOK IS TARGETED AS A BASIC COURSE IN TOPOLOGY FOR UNDERGRADUATE AND GRADUATE STUDENTS OF MATHEMATICS IT FOCUSES ON MANY VARIANTS OF TOPOLOGY AND ITS APPLICATIONS IN MODERN ANALYSIS GEOMETRY ALGEBRA AND THE THEORY OF NUMBERS OFFERING A PROPER BACKGROUND ON TOPOLOGY ANALYSIS AND ALGEBRA THIS VOLUME DISCUSSES THE TOPOLOGICAL GROUPS AND TOPOLOGICAL VECTOR SPACES THAT PROVIDE MANY INTERESTING GEOMETRICAL OBJECTS WHICH RELATE ALGEBRA WITH GEOMETRY AND ANALYSIS THIS VOLUME FOLLOWS A SYSTEMATIC AND COMPREHENSIVE ELEMENTARY APPROACH TO THE TOPOLOGY RELATED TO MANIFOLDS EMPHASIZING DIFFERENTIAL TOPOLOGY IT FURTHER COMMUNICATES THE HISTORY OF THE EMERGENCE OF THE CONCEPTS LEADING TO THE DEVELOPMENT OF TOPOLOGICAL GROUPS MANIFOLDS AND ALSO LIE GROUPS AS MATHEMATICAL TOPICS WITH THEIR MOTIVATIONS THIS BOOK WILL PROMOTE THE SCOPE POWER AND ACTIVE LEARNING OF THE SUBJECT WHILE COVERING A WIDE RANGE OF THEORIES AND APPLICATIONS IN A BALANCED UNIFIED WAY

IN THIS BROAD INTRODUCTION TO TOPOLOGY THE AUTHOR SEARCHES FOR TOPOLOGICAL INVARIANTS OF SPACES TOGETHER WITH TECHNIQUES FOR CALCULATING THEM STUDENTS WITH KNOWLEDGE OF REAL ANALYSIS ELEMENTARY GROUP THEORY AND LINEAR ALGEBRA WILL QUICKLY BECOME FAMILIAR WITH A WIDE VARIETY OF TECHNIQUES AND APPLICATIONS INVOLVING POINT SET GEOMETRIC AND ALGEBRAIC TOPOLOGY OVER 139 ILLUSTRATIONS AND MORE THAN 350 PROBLEMS OF VARIOUS DIFFICULTIES WILL HELP STUDENTS GAIN A ROUNDED UNDERSTANDING OF THE SUBJECT

THIS BOOK BRINGS THE MOST IMPORTANT ASPECTS OF MODERN TOPOLOGY WITHIN REACH OF A SECOND YEAR UNDERGRADUATE STUDENT IT SUCCESSFULLY UNITES THE MOST EXCITING ASPECTS OF MODERN TOPOLOGY WITH THOSE THAT ARE MOST USEFUL FOR RESEARCH LEAVING READERS PREPARED AND MOTIVATED FOR FURTHER STUDY WRITTEN FROM A THOROUGHLY MODERN PERSPECTIVE EVERY TOPIC IS INTRODUCED WITH AN EXPLANATION OF WHY IT IS BEING STUDIED AND A HUGE NUMBER OF EXAMPLES PROVIDE FURTHER MOTIVATION THE BOOK IS IDEAL FOR SELF STUDY AND ASSUMES ONLY A FAMILIARITY WITH THE NOTION OF CONTINUITY AND BASIC ALGEBRA

AIMED AT RESEARCHERS IN MATHEMATICS PHILOSOPHY AND LOGIC THIS BOOK PROVIDES THE FIRST ORGANIC EXPOSITION OF DYNAMIC CONSTRUCTIVISM AND THE MATHEMATICS ENSUING IN PRACTICE INCLUDING DISCUSSION OF THE TECHNICAL DEVELOPMENT OF THE FIELD AND OUTLINING THE PHILOSOPHICAL AND METHODOLOGICAL MOTIVATIONS UNDERLYING THE EVOLUTION OF THE DISCIPLINE IN DYNAMIC CONSTRUCTIVISM MATHEMATICS IS SEEN AS THE RESULT OF A DYNAMIC PROCESS OF INTERACTION BETWEEN THE CONSTRUCTION OF MATHEMATICAL ENTITIES BY ABSTRACTION AND BY

IDEALIZATION AND THEIR SELECTION ACCORDING TO THEIR EFFICIENCY IN APPLICATIONS TO REALITY AND IN THE ORGANISATION OF MATHEMATICS ITSELF THE CRUCIAL BENEFIT OF THIS VISION IS ITS INDEPENDENCE FROM DOGMAS AND EXTERNAL AUTHORITIES A PRACTICAL CONSEQUENCE IS FULL RESPECT FOR THE DIVERSE AREAS OF MATHEMATICS MAINLY COMPUTATION SPATIAL INTUITION DEDUCTION AND ABSTRACT AXIOMATIC METHOD WITHOUT REDUCING ONE TO ANOTHER AS A SECOND CONSEQUENCE A DYNAMIC INTERACTION BETWEEN DIFFERENT EPISTEMOLOGICAL LEVELS IS ALWAYS ACTIVE AND PRESENT IN THE DEVELOPMENT OF MATHEMATICS IN PRACTICE THE STUDY OF ITS FOUNDATIONS AND ITS FORMALISATION IN A COMPUTER LANGUAGE

THIS TEXTBOOK IS INTENDED FOR A COURSE IN ALGEBRAIC TOPOLOGY AT THE BEGINNING GRADUATE LEVEL THE MAIN TOPICS COVERED ARE THE CLASSIFICATION OF COMPACT 2 MANIFOLDS THE FUNDAMENTAL GROUP COVERING SPACES SINGULAR HOMOLOGY THEORY AND SINGULAR COHOMOLOGY THEORY THESE TOPICS ARE DEVELOPED SYSTEMATICALLY AVOIDING ALL UNNECESSARY DEFINITIONS TERMINOLOGY AND TECHNICAL MACHINERY THE TEXT CONSISTS OF MATERIAL FROM THE FIRST FIVE CHAPTERS OF THE AUTHOR'S EARLIER BOOK ALGEBRAIC TOPOLOGY AN INTRODUCTION GTM 56 TOGETHER WITH ALMOST ALL OF HIS BOOK SINGULAR HOMOLOGY THEORY GTM 70 THE MATERIAL FROM THE TWO EARLIER BOOKS HAS BEEN SUBSTANTIALLY REVISED CORRECTED AND BROUGHT UP TO DATE

THE FIRST HALF OF THE BOOK PROVIDES AN INTRODUCTION TO GENERAL TOPOLOGY WITH AMPLE SPACE GIVEN TO EXERCISES AND CAREFULLY SELECTED APPLICATIONS THE SECOND HALF OF THE TEXT INCLUDES TOPICS IN ASYMMETRIC TOPOLOGY A FIELD MOTIVATED BY APPLICATIONS IN COMPUTER SCIENCE RECURRING THEMES INCLUDE THE INTERACTIONS OF TOPOLOGY WITH ORDER THEORY AND MATHEMATICS DESIGNED TO MODEL LOSS OF RESOLUTION SITUATIONS

THIS IS THE FIRST OF THE ENCYCLOPAEDIA VOLUMES DEVOTED TO GENERAL TOPOLOGY IT HAS TWO PARTS THE FIRST OUTLINES THE BASIC CONCEPTS AND CONSTRUCTIONS OF GENERAL TOPOLOGY INCLUDING SEVERAL TOPICS WHICH HAVE NOT PREVIOUSLY BEEN COVERED IN ENGLISH LANGUAGE TEXTS THE SECOND PART PRESENTS A SURVEY OF DIMENSION THEORY FROM THE VERY BEGINNINGS TO THE MOST IMPORTANT RECENT DEVELOPMENTS THE PRINCIPAL IDEAS AND METHODS ARE TREATED IN DETAIL AND THE MAIN RESULTS ARE PROVIDED WITH SKETCHES OF PROOFS THE AUTHORS HAVE SUCCEDED ADMIRABLY IN THE DIFFICULT TASK OF WRITING A BOOK WHICH WILL NOT ONLY BE ACCESSIBLE TO THE GENERAL SCIENTIST AND THE UNDERGRADUATE BUT WILL ALSO APPEAL TO THE PROFESSIONAL MATHEMATICIAN THE AUTHORS' EFFORTS TO DETAIL THE RELATIONSHIP BETWEEN MORE SPECIALIZED TOPICS AND THE CENTRAL THEMES OF TOPOLOGY GIVE THE BOOK A BROAD SCHOLARLY APPEAL WHICH FAR TRANSCENDS NARROW DISCIPLINARY LINES

AMONG THE BEST AVAILABLE REFERENCE INTRODUCTIONS TO GENERAL TOPOLOGY THIS VOLUME IS APPROPRIATE FOR ADVANCED UNDERGRADUATE AND BEGINNING GRADUATE STUDENTS INCLUDES HISTORICAL NOTES AND OVER 340 DETAILED EXERCISES 1970 EDITION INCLUDES 27 FIGURES

THIS INTRODUCTION TO POINT SET TOPOLOGY CONTAINS MATERIAL ON HYPERSPACES MALFUNCTIONS AND DIMENSION TOPICS IMPORTANT IN THE STUDY OF FRACTAL GEOMETRY AND CHAOTIC DYNAMICS THE BOOK ALSO INCLUDES EXAMPLES TOPICS AND APPLICATIONS IT AIMS TO MOTIVATE STUDENTS TO THINK ABSTRACTLY

STUDENTS OF TOPOLOGY RIGHTLY COMPLAIN THAT MUCH OF THE BASIC MATERIAL IN THE SUBJECT CANNOT EASILY BE FOUND IN THE LITERATURE AT LEAST NOT IN A CONVENIENT FORM IN THIS BOOK I HAVE TRIED TO TAKE A FRESH LOOK AT SOME OF THIS BASIC MATERIAL AND TO ORGANIZE IT IN A COHERENT FASHION THE TEXT IS AS SELF CONTAINED AS I COULD REASONABLY MAKE IT AND SHOULD BE QUITE ACCESSIBLE TO ANYONE WHO HAS AN ELEMENTARY KNOWLEDGE OF POINT SET TOPOLOGY AND GROUP THEORY THIS BOOK IS BASED ON A COURSE OF 16 GRADUATE LECTURES GIVEN AT OXFORD AND ELSEWHERE FROM TIME TO TIME IN A COURSE OF THAT LENGTH ONE CANNOT DISCUSS TOO MANY TOPICS WITHOUT

BEING UNDULY SUPERFICIAL HOWEVER THIS WAS NEVER INTENDED AS A TREATISE ON THE SUBJECT BUT RATHER AS A SHORT INTRODUCTORY COURSE WHICH WILL I HOPE PROVE USEFUL TO SPECIALISTS AND NON SPECIALISTS ALIKE THE INTRODUCTION CONTAINS A DESCRIPTION OF THE CONTENTS NO ALGEBRAIC OR DIFFERENTIAL TOPOLOGY IS INVOLVED ALTHOUGH I HAVE BORNE IN MIND THE NEEDS OF STUDENTS OF THOSE BRANCHES OF THE SUBJECT EXERCISES FOR THE READER ARE SCATTERED THROUGHOUT THE TEXT WHILE SUGGESTIONS FOR FURTHER READING ARE CONTAINED IN THE LISTS OF REFERENCES AT THE END OF EACH CHAPTER IN MOST CASES THESE LISTS INCLUDE THE MAIN SOURCES I HAVE DRAWN ON BUT THIS IS NOT THE TYPE OF BOOK WHERE IT IS PRACTICABLE TO GIVE A REFERENCE FOR EVERYTHING

THIS WORK PRESENTS SUBJECTS OF SUCH INTEREST TO TOPOLOGISTS AS TYCHNOFF POSET STRUCTURES RESOLVABILITY IN TOPOLOGY HAUSDORFF SPACES QUASI METRISATION UNIFORMISABLE SPACE DISTAL FUNCTIONS MAXIMAL COMPLETE SUBGRAPHS B SPACES INVERSE COMPACTNESS FILTRATION OF COMPACT SPACE DUALITY BETWEEN LOCALLY M CONVEX ALGEBRAS COUNTABLE COMPACTNESS ORDERED POWER ASSOCIATIVE GROUPOIDS SEMILATTICES OF ORDERED COMPACTIFICATIONS FEEBLY COMPACT EXPANSIONS TOPOLOGICAL NEARRINGS CONNECTEDNESS AND DISCONNECTEDNESS COMPLETION OF FILTER SPACES HOMOGENEOUS EXTERNALLY DISCONNECTED SPACES AND FIXED POINT FREE MAPS

IF YOU ALLY HABIT SUCH A REFERRED **ARMSTRONG BASIC TOPOLOGY** BOOK THAT WILL COME UP WITH THE MONEY FOR YOU WORTH, GET THE NO QUESTION BEST SELLER FROM US CURRENTLY FROM SEVERAL PREFERRED AUTHORS. IF YOU WANT TO FUNNY BOOKS, LOTS OF NOVELS, TALE, JOKES, AND MORE FICTIONS COLLECTIONS ARE MOREOVER LAUNCHED, FROM BEST SELLER TO ONE OF THE MOST CURRENT RELEASED. YOU MAY NOT BE PERPLEXED TO ENJOY EVERY BOOK COLLECTIONS **ARMSTRONG BASIC TOPOLOGY** THAT WE WILL CATEGORICALLY OFFER. IT IS NOT AS REGARDS THE COSTS. ITS ROUGHLY WHAT YOU COMPULSION CURRENTLY. THIS **ARMSTRONG BASIC TOPOLOGY**, AS ONE OF THE MOST FULL OF ZIP SELLERS HERE WILL NO QUESTION BE IN THE MIDDLE OF THE BEST OPTIONS TO REVIEW.

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 9. LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities.
 10. **How do I compress a PDF file?** You can use online tools like SmallPDF, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces

<p>THE FILE SIZE, MAKING IT EASIER TO SHARE AND DOWNLOAD.</p> <p>11. CAN I FILL OUT FORMS IN A PDF FILE? YES, MOST PDF VIEWERS/EDITORS LIKE ADOBE ACROBAT, PREVIEW (ON MAC), OR VARIOUS ONLINE TOOLS ALLOW YOU TO FILL OUT FORMS IN PDF FILES BY SELECTING TEXT FIELDS AND ENTERING INFORMATION.</p> <p>12. ARE THERE ANY RESTRICTIONS WHEN WORKING WITH PDFS? SOME PDFS MIGHT HAVE RESTRICTIONS SET BY THEIR CREATOR, SUCH AS PASSWORD PROTECTION, EDITING RESTRICTIONS, OR PRINT RESTRICTIONS. BREAKING THESE RESTRICTIONS MIGHT REQUIRE SPECIFIC SOFTWARE OR TOOLS, WHICH MAY OR MAY NOT BE LEGAL DEPENDING ON THE CIRCUMSTANCES AND LOCAL LAWS.</p>	<h3>COST SAVINGS</h3> <p>FIRST AND FOREMOST, THEY SAVE YOU MONEY. BUYING BOOKS CAN BE EXPENSIVE, ESPECIALLY IF YOU'RE AN AVID READER. FREE EBOOK SITES ALLOW YOU TO ACCESS A VAST ARRAY OF BOOKS WITHOUT SPENDING A DIME.</p> <h3>ACCESSIBILITY</h3> <p>THESE SITES ALSO ENHANCE ACCESSIBILITY. WHETHER YOU'RE AT HOME, ON THE GO, OR HALFWAY AROUND THE WORLD, YOU CAN ACCESS YOUR FAVORITE TITLES ANYTIME, ANYWHERE, PROVIDED YOU HAVE AN INTERNET CONNECTION.</p> <h3>VARIETY OF CHOICES</h3> <p>MOREOVER, THE VARIETY OF CHOICES AVAILABLE IS ASTOUNDING. FROM CLASSIC LITERATURE TO CONTEMPORARY NOVELS, ACADEMIC TEXTS TO CHILDREN'S BOOKS, FREE EBOOK SITES COVER ALL GENRES AND INTERESTS.</p> <h3>TOP FREE EBOOK SITES</h3> <p>THERE ARE COUNTLESS FREE EBOOK SITES, BUT A FEW STAND OUT FOR THEIR QUALITY AND RANGE OF OFFERINGS.</p> <h3>PROJECT GUTENBERG</h3> <p>PROJECT GUTENBERG IS A PIONEER IN OFFERING FREE EBOOKS. WITH OVER 60,000 TITLES, THIS SITE PROVIDES A WEALTH OF CLASSIC LITERATURE IN THE PUBLIC DOMAIN.</p>	<h3>OPEN LIBRARY</h3> <p>OPEN LIBRARY AIMS TO HAVE A WEBPAGE FOR EVERY BOOK EVER PUBLISHED. IT OFFERS MILLIONS OF FREE EBOOKS, MAKING IT A FANTASTIC RESOURCE FOR READERS.</p> <h3>GOOGLE BOOKS</h3> <p>GOOGLE BOOKS ALLOWS USERS TO SEARCH AND PREVIEW MILLIONS OF BOOKS FROM LIBRARIES AND PUBLISHERS WORLDWIDE. WHILE NOT ALL BOOKS ARE AVAILABLE FOR FREE, MANY ARE.</p> <h3>MANYBOOKS</h3> <p>MANYBOOKS OFFERS A LARGE SELECTION OF FREE EBOOKS IN VARIOUS GENRES. THE SITE IS USER-FRIENDLY AND OFFERS BOOKS IN MULTIPLE FORMATS.</p> <h3>BOOKBOON</h3> <p>BOOKBOON SPECIALIZES IN FREE TEXTBOOKS AND BUSINESS BOOKS, MAKING IT AN EXCELLENT RESOURCE FOR STUDENTS AND PROFESSIONALS.</p> <h3>HOW TO DOWNLOAD EBOOKS SAFELY</h3> <p>DOWNLOADING EBOOKS SAFELY IS CRUCIAL TO AVOID PIRATED CONTENT AND PROTECT YOUR DEVICES.</p> <h3>AVOIDING PIRATED CONTENT</h3> <p>STICK TO REPUTABLE SITES TO ENSURE YOU'RE NOT DOWNLOADING PIRATED CONTENT. PIRATED EBOOKS</p>
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INTRODUCTION

THE DIGITAL AGE HAS REVOLUTIONIZED THE WAY WE READ, MAKING BOOKS MORE ACCESSIBLE THAN EVER. WITH THE RISE OF EBOOKS, READERS CAN NOW CARRY ENTIRE LIBRARIES IN THEIR POCKETS. AMONG THE VARIOUS SOURCES FOR EBOOKS, FREE EBOOK SITES HAVE EMERGED AS A POPULAR CHOICE. THESE SITES OFFER A TREASURE TROVE OF KNOWLEDGE AND ENTERTAINMENT WITHOUT THE COST. BUT WHAT MAKES THESE SITES SO VALUABLE, AND WHERE CAN YOU FIND THE BEST ONES? LET'S DIVE INTO THE WORLD OF FREE EBOOK SITES.

BENEFITS OF FREE EBOOK SITES

WHEN IT COMES TO READING, FREE EBOOK SITES OFFER NUMEROUS ADVANTAGES.

NOT ONLY HARM AUTHORS AND PUBLISHERS BUT CAN ALSO POSE SECURITY RISKS.

ENSURING DEVICE SAFETY

ALWAYS USE ANTIVIRUS SOFTWARE AND KEEP YOUR DEVICES UPDATED TO PROTECT AGAINST MALWARE THAT CAN BE HIDDEN IN DOWNLOADED FILES.

LEGAL CONSIDERATIONS

BE AWARE OF THE LEGAL CONSIDERATIONS WHEN DOWNLOADING EBOOKS. ENSURE THE SITE HAS THE RIGHT TO DISTRIBUTE THE BOOK AND THAT YOU'RE NOT VIOLATING COPYRIGHT LAWS.

USING FREE EBOOK SITES FOR EDUCATION

FREE EBOOK SITES ARE INVALUABLE FOR EDUCATIONAL PURPOSES.

ACADEMIC RESOURCES

SITES LIKE PROJECT GUTENBERG AND OPEN LIBRARY OFFER NUMEROUS ACADEMIC RESOURCES, INCLUDING TEXTBOOKS AND SCHOLARLY ARTICLES.

LEARNING NEW SKILLS

YOU CAN ALSO FIND BOOKS ON VARIOUS SKILLS, FROM COOKING TO PROGRAMMING, MAKING THESE SITES GREAT FOR PERSONAL DEVELOPMENT.

SUPPORTING HOMESCHOOLING

FOR HOMESCHOOLING PARENTS, FREE

EBOOK SITES PROVIDE A WEALTH OF EDUCATIONAL MATERIALS FOR DIFFERENT GRADE LEVELS AND SUBJECTS.

GENRES AVAILABLE ON FREE EBOOK SITES

THE DIVERSITY OF GENRES AVAILABLE ON FREE EBOOK SITES ENSURES THERE'S SOMETHING FOR EVERYONE.

FICTION

FROM TIMELESS CLASSICS TO CONTEMPORARY BESTSELLERS, THE FICTION SECTION IS BRIMMING WITH OPTIONS.

NON-FICTION

NON-FICTION ENTHUSIASTS CAN FIND BIOGRAPHIES, SELF-HELP BOOKS, HISTORICAL TEXTS, AND MORE.

TEXTBOOKS

STUDENTS CAN ACCESS TEXTBOOKS ON A WIDE RANGE OF SUBJECTS, HELPING REDUCE THE FINANCIAL BURDEN OF EDUCATION.

CHILDREN'S BOOKS

PARENTS AND TEACHERS CAN FIND A PLETHORA OF CHILDREN'S BOOKS, FROM PICTURE BOOKS TO YOUNG ADULT NOVELS.

ACCESSIBILITY FEATURES OF EBOOK SITES

EBOOK SITES OFTEN COME WITH FEATURES THAT ENHANCE

ACCESSIBILITY.

AUDIOBOOK OPTIONS

MANY SITES OFFER AUDIOBOOKS, WHICH ARE GREAT FOR THOSE WHO PREFER LISTENING TO READING.

ADJUSTABLE FONT SIZES

YOU CAN ADJUST THE FONT SIZE TO SUIT YOUR READING COMFORT, MAKING IT EASIER FOR THOSE WITH VISUAL IMPAIRMENTS.

TEXT-TO-SPEECH CAPABILITIES

TEXT-TO-SPEECH FEATURES CAN CONVERT WRITTEN TEXT INTO AUDIO, PROVIDING AN ALTERNATIVE WAY TO ENJOY BOOKS.

TIPS FOR MAXIMIZING YOUR EBOOK EXPERIENCE

TO MAKE THE MOST OUT OF YOUR EBOOK READING EXPERIENCE, CONSIDER THESE TIPS.

CHOOSING THE RIGHT DEVICE

WHETHER IT'S A TABLET, AN E-READER, OR A SMARTPHONE, CHOOSE A DEVICE THAT OFFERS A COMFORTABLE READING EXPERIENCE FOR YOU.

ORGANIZING YOUR EBOOK LIBRARY

USE TOOLS AND APPS TO ORGANIZE YOUR EBOOK COLLECTION, MAKING IT EASY TO FIND AND ACCESS YOUR FAVORITE TITLES.

SYNCING ACROSS DEVICES

MANY EBOOK PLATFORMS ALLOW YOU TO SYNC YOUR LIBRARY ACROSS MULTIPLE DEVICES, SO YOU CAN PICK UP RIGHT WHERE YOU LEFT OFF, NO MATTER WHICH DEVICE YOU'RE USING.

CHALLENGES AND LIMITATIONS

DESPITE THE BENEFITS, FREE EBOOK SITES COME WITH CHALLENGES AND LIMITATIONS.

QUALITY AND AVAILABILITY OF TITLES

NOT ALL BOOKS ARE AVAILABLE FOR FREE, AND SOMETIMES THE QUALITY OF THE DIGITAL COPY CAN BE POOR.

DIGITAL RIGHTS MANAGEMENT (DRM)

DRM CAN RESTRICT HOW YOU USE THE EBOOKS YOU DOWNLOAD, LIMITING SHARING AND TRANSFERRING BETWEEN DEVICES.

INTERNET DEPENDENCY

ACCESSING AND DOWNLOADING EBOOKS REQUIRES AN INTERNET CONNECTION, WHICH CAN BE A LIMITATION IN AREAS WITH POOR CONNECTIVITY.

FUTURE OF FREE EBOOK SITES

THE FUTURE LOOKS PROMISING FOR FREE EBOOK SITES AS TECHNOLOGY CONTINUES TO ADVANCE.

TECHNOLOGICAL ADVANCES

IMPROVEMENTS IN TECHNOLOGY WILL LIKELY MAKE ACCESSING AND READING EBOOKS EVEN MORE SEAMLESS AND ENJOYABLE.

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?

FAQs

ARE FREE EBOOK SITES LEGAL? YES, MOST FREE EBOOK SITES ARE LEGAL. THEY TYPICALLY OFFER BOOKS THAT ARE IN THE PUBLIC DOMAIN OR HAVE THE RIGHTS TO DISTRIBUTE THEM. HOW DO I KNOW IF AN EBOOK SITE IS SAFE? STICK TO WELL-KNOWN AND REPUTABLE SITES LIKE PROJECT GUTENBERG, OPEN LIBRARY, AND GOOGLE BOOKS. CHECK REVIEWS AND ENSURE THE SITE HAS PROPER SECURITY MEASURES. CAN I DOWNLOAD EBOOKS TO ANY DEVICE?

MOST FREE EBOOK SITES OFFER DOWNLOADS IN MULTIPLE FORMATS, MAKING THEM COMPATIBLE WITH VARIOUS DEVICES LIKE E-READERS, TABLETS, AND SMARTPHONES. DO FREE EBOOK SITES OFFER AUDIOBOOKS? MANY FREE EBOOK SITES OFFER AUDIOBOOKS, WHICH ARE PERFECT FOR THOSE WHO PREFER LISTENING TO THEIR BOOKS. HOW CAN I SUPPORT AUTHORS IF I USE FREE EBOOK SITES? YOU CAN SUPPORT AUTHORS BY PURCHASING THEIR BOOKS WHEN POSSIBLE, LEAVING REVIEWS, AND SHARING THEIR WORK WITH OTHERS.

