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The Story of Mathematics What's the Use? Professor Stewart's Cabinet of Mathematical Curiosities Do Dice Play God? Symmetry: A Very Short Introduction How to Cut a Cake The Great Mathematical Problems Figments of Reality Mathematics Of Life Concepts of Modern Mathematics Why Beauty Is Truth Flatterland Nature's Numbers Significant Figures Another Fine Math You've Got Me Into. . . Taming the Infinite Five Equations That Changed the World Professor Stewart's Incredible Numbers Ambushed Does God Play Dice? Complex Analysis From Here to Infinity Life's Other Secret How to Cut a Cake The Problems of Mathematics Algebraic Number Theory and Fermat's Last Theorem The Art of C Programming Transactional Analysis Counselling in Action Math Hysteria Calculating the Cosmos Professor Stewart's Casebook of Mathematical Mysteries The Magical Maze Just One Vote Figments of Reality Game, Set and Math Companion to Contemporary Economic Thought The Symmetry Perspective Systems Leadership Singularities and Groups in Bifurcation Theory The Beauty of Numbers in Nature

THE STORY OF MATHEMATICS *2008*

THIS VISUALLY STUNNING VOLUME TAKES THE READER ON AN ILLUSTRATED TOUR OF MATHEMATICS ACROSS CULTURES AND CIVILIZATIONS BRINGING TO LIFE A WORLD OF IMPORTANT IDEAS AND RARELY SUPPOSED GREAT INTRIGUE AND CHARM

WHAT'S THE USE? *2021-08-19*

STEWART IS BRITAIN S MOST BRILLIANT AND PROLIFIC POPULARISER OF MATHS ALEX BELLOS THE INSTRUCTIVE EQUIVALENT OF A MICHELIN STARRED TASTING MENU TIM RADFORD MANY PEOPLE THINK MATHEMATICS IS USELESS THEY RE WRONG IN THE UK THE 2 8 MILLION PEOPLE EMPLOYED IN MATHEMATICAL SCIENCE OCCUPATIONS CONTRIBUTED 208 BILLION TO THE ECONOMY IN A SINGLE YEAR THAT S 10 PER CENT OF THE WORKFORCE CONTRIBUTING 16 PER CENT OF THE ECONOMY WHAT S THE USE ASKS WHY THERE IS SUCH A VAST GULF BETWEEN PUBLIC PERCEPTIONS OF MATHEMATICS AND REALITY IT SHOWS HOW MATHEMATICS IS VITAL OFTEN IN SURPRISING WAYS BEHIND THE SCENES OF DAILY LIFE HOW POLITICIANS PICK THEIR VOTERS HOW AN ABSURD LITTLE PUZZLE SOLVED 300 YEARS AGO LEADS TO EFFICIENT METHODS FOR KIDNEY TRANSPLANTS AND HOW A BIZARRE INFINITELY WIGGLY CURVE HELPS TO OPTIMISE DELIVERIES TO YOUR DOOR

PROFESSOR STEWART'S CABINET OF MATHEMATICAL CURIOSITIES *2010-09-03*

SCHOOL MATHS IS NOT THE INTERESTING PART THE REAL FUN IS ELSEWHERE LIKE A MAGPIE IAN STEWART HAS COLLECTED THE MOST ENLIGHTENING ENTERTAINING AND VEXING CURIOSITIES OF MATHS OVER THE YEARS NOW THE PRIVATE COLLECTION IS DISPLAYED IN HIS CABINET THERE ARE SOME HIDDEN GEMS OF LOGIC GEOMETRY AND PROBABILITY LIKE HOW TO EXTRACT A CHERRY FROM A COCKTAIL GLASS HARDER THAN YOU THINK A POP UP DODECAHEDRON THE REAL REASON WHY YOU CAN T DIVIDE ANYTHING BY ZERO AND SOME TIPS FOR MAKING MONEY BY PROVING THE OBVIOUS SCATTERED AMONG THESE ARE KEYS TO UNLOCKING THE MYSTERIES OF FERMAT S LAST THEOREM THE POINCAR CONJECTURE CHAOS THEORY AND THE P NP PROBLEM FOR WHICH A MILLION DOLLAR PRIZE IS ON OFFER THERE ARE BEGUILING SECRETS ABOUT FAMILIAR NAMES LIKE PYTHAGORAS OR PRIME NUMBERS AS WELL AS ANECDOTES ABOUT GREAT MATHEMATICIANS PULL OUT THE DRAWERS OF THE PROFESSOR S CABINET AND WHO KNOWS WHAT COULD HAPPEN

DO DICE PLAY GOD? *2019-06-06*

UNCERTAINTY IS EVERYWHERE IT LURKS IN EVERY CONSIDERATION OF THE FUTURE THE WEATHER THE ECONOMY THE SEX OF AN UNBORN CHILD EVEN QUANTITIES WE THINK THAT WE KNOW SUCH AS POPULATIONS OR THE TRANSIT OF THE PLANETS CONTAIN THE POSSIBILITY

OF ERROR IT S NO WONDER THAT THROUGHOUT THAT HISTORY WE HAVE ATTEMPTED TO PRODUCE RIGIDLY DEFINED AREAS OF UNCERTAINTY WE PREFER THE SURPRISE PARTY TO THE SURPRISE ASTEROID WE BEGAN OUR QUEST TO MAKE CERTAIN AN UNCERTAIN WORLD BY READING OMENS IN LIVERS TEA LEAVES AND THE STARS HOWEVER OVER THE CENTURIES DRIVEN BY CURIOSITY COMPETITION AND A DESIRE BE BETTER GAMBLERS PIONEERING MATHEMATICIANS AND SCIENTISTS BEGAN TO REDUCE WILD UNCERTAINTIES TO TAME DISTRIBUTIONS OF PROBABILITY AND STATISTICAL INFERENCES BUT EVEN AS UNKNOWN UNKNOWNS BECAME KNOWN UNKNOWNS OUR PESSIMISM MADE US BELIEVE THAT SOME PROBLEMS WERE UNSOLVABLE AND OUR INTUITION MISLED US WORSE AS WE REALIZED HOW OMNIPRESENT AND VARIED UNCERTAINTY IS WE ENCOUNTERED CHAOS QUANTUM MECHANICS AND THE LIMITATIONS OF OUR PREDICTIVE POWER BESTSELLING AUTHOR PROFESSOR IAN STEWART EXPLORES THE HISTORY AND MATHEMATICS OF UNCERTAINTY TOUCHING ON GAMBLING PROBABILITY STATISTICS FINANCIAL AND WEATHER FORECASTS CENSUSES MEDICAL STUDIES CHAOS QUANTUM PHYSICS AND CLIMATE HE MAKES ONE THING CLEAR A REASONABLE PROBABILITY IS THE ONLY CERTAINTY

Symmetry: A Very Short Introduction *2013-05-30*

IN THE 1800S MATHEMATICIANS INTRODUCED A FORMAL THEORY OF SYMMETRY GROUP THEORY NOW A BRANCH OF ABSTRACT ALGEBRA THIS SUBJECT FIRST AROSE IN THE THEORY OF EQUATIONS SYMMETRY IS AN IMMENSELY IMPORTANT CONCEPT IN MATHEMATICS AND THROUGHOUT THE SCIENCES AND ITS APPLICATIONS RANGE ACROSS THE ENTIRE SUBJECT SYMMETRY GOVERNS THE STRUCTURE OF CRYSTALS INNUMERABLE TYPES OF PATTERN FORMATION HOW SYSTEMS CHANGE THEIR STATE AS PARAMETERS VARY AND FUNDAMENTAL PHYSICS IS GOVERNED BY SYMMETRIES IN THE LAWS OF NATURE IT IS HIGHLY VISUAL WITH APPLICATIONS THAT INCLUDE ANIMAL MARKINGS LOCOMOTION EVOLUTIONARY BIOLOGY ELASTIC BUCKLING WAVES THE SHAPE OF THE EARTH AND THE FORM OF GALAXIES IN THIS VERY SHORT INTRODUCTION IAN STEWART DEMONSTRATES ITS DEEP IMPLICATIONS AND SHOWS HOW IT PLAYS A MAJOR ROLE IN THE CURRENT SEARCH TO UNIFY RELATIVITY AND QUANTUM THEORY ABOUT THE SERIES THE VERY SHORT INTRODUCTIONS SERIES FROM OXFORD UNIVERSITY PRESS CONTAINS HUNDREDS OF TITLES IN ALMOST EVERY SUBJECT AREA THESE POCKET SIZED BOOKS ARE THE PERFECT WAY TO GET AHEAD IN A NEW SUBJECT QUICKLY OUR EXPERT AUTHORS COMBINE FACTS ANALYSIS PERSPECTIVE NEW IDEAS AND ENTHUSIASM TO MAKE INTERESTING AND CHALLENGING TOPICS HIGHLY READABLE

How to Cut a Cake *2006-10-12*

WELCOME BACK TO IAN STEWART S MAGICAL WORLD OF MATHEMATICS THIS IS A STRANGE WORLD OF NEVER ENDING CHESS GAMES EMPIRES ON THE MOON FURIOUS FIREFLIES AND OF COURSE DISPUTES OVER HOW BEST TO CUT A CAKE EACH QUIRKY TALE PRESENTS A FASCINATING MATHEMATICAL PUZZLE CHALLENGING FUN AND ALSO INTRODUCING THE READER TO A SIGNIFICANT MATHEMATICAL PROBLEM IN AN ENGAGING AND WITTY WAY

The Great Mathematical Problems 2013-03-07

THERE ARE SOME MATHEMATICAL PROBLEMS WHOSE SIGNIFICANCE GOES BEYOND THE ORDINARY LIKE FERMAT S LAST THEOREM OR GOLDBACH S CONJECTURE THEY ARE THE ENIGMAS WHICH DEFINE MATHEMATICS THE GREAT MATHEMATICAL PROBLEMS EXPLAINS WHY THESE PROBLEMS EXIST WHY THEY MATTER WHAT DRIVES MATHEMATICIANS TO INCREDIBLE LENGTHS TO SOLVE THEM AND WHERE THEY STAND IN THE CONTEXT OF MATHEMATICS AND SCIENCE AS A WHOLE IT CONTAINS SOLVED PROBLEMS LIKE THE POINCAR CONJECTURE CRACKED BY THE ECCENTRIC GENIUS GRIGORI PERELMAN WHO REFUSED ACADEMIC HONOURS AND A MILLION DOLLAR PRIZE FOR HIS WORK AND ONES WHICH LIKE THE RIEMANN HYPOTHESIS REMAIN BAFFLING AFTER CENTURIES STEWART IS THE GUIDE TO THIS MYSTERIOUS AND EXCITING WORLD SHOWING HOW MODERN MATHEMATICIANS CONSTANTLY RISE TO THE CHALLENGES SET BY THEIR PREDECESSORS AS THE GREAT MATHEMATICAL PROBLEMS OF THE PAST SUCCUMB TO THE NEW TECHNIQUES AND IDEAS OF THE PRESENT

Figments of Reality 1997

POPULAR SCIENCE TOUR DE FORCE FROM BESTSELLING AUTHORS ON EVOLUTION OF INTELLIGENCE CULTURE AND MIND

Mathematics Of Life 2011-04-07

A NEW PARTNERSHIP OF BIOLOGISTS AND MATHEMATICIANS IS PICKING APART THE HIDDEN COMPLEXITY OF ANIMALS AND PLANTS TO THROW FRESH LIGHT ON THE BEHAVIOUR OF ENTIRE ORGANISMS HOW THEY INTERACT AND HOW CHANGES IN BIOLOGICAL DIVERSITY AFFECT THE PLANET S ECOLOGICAL BALANCE MATHEMATICS OFFERS NEW AND SOMETIMES STARTLING PERSPECTIVES ON EVOLUTION AND HOW PATTERNS OF INHERITANCE AND POPULATION WORK OUT OVER TIME SCALES RANGING FROM MILLIONS TO HUNDREDS OF YEARS AS WELL AS WHAT S GOING ON TO CHANGE US RIGHT NOW IAN STEWART IN CHARACTERISTICALLY CLEAR AND ENTERTAINING FASHION EXPLORES THESE AND A WHOLE RANGE OF PERTINENT ISSUES INCLUDING HOW FAR GENES CONTROL BEHAVIOUR AND THE NATURE OF LIFE ITSELF HE SHOWS HOW FAR MATHEMATICIANS AND BIOLOGISTS ARE SUCCEEDING IN TACKLING SOME OF THE MOST DIFFICULT SCIENTIFIC PROBLEMS THE HUMAN RACE HAS EVER CONFRONTED AND WHERE THEIR RESEARCH IS CURRENTLY TAKING US

Concepts of Modern Mathematics 2012-05-23

IN THIS CHARMING VOLUME A NOTED ENGLISH MATHEMATICIAN USES HUMOR AND ANECDOTE TO ILLUMINATE THE CONCEPTS OF GROUPS SETS SUBSETS TOPOLOGY BOOLEAN ALGEBRA AND OTHER MATHEMATICAL SUBJECTS 200 ILLUSTRATIONS

Why Beauty Is Truth 2007-08-02

AT THE HEART OF RELATIVITY THEORY QUANTUM MECHANICS STRING THEORY AND MUCH OF MODERN COSMOLOGY LIES ONE CONCEPT SYMMETRY IN WHY BEAUTY IS TRUTH WORLD FAMOUS MATHEMATICIAN IAN STEWART NARRATES THE HISTORY OF THE EMERGENCE OF THIS REMARKABLE AREA OF STUDY STEWART INTRODUCES US TO SUCH CHARACTERS AS THE RENAISSANCE ITALIAN GENIUS ROGUE SCHOLAR AND GAMBLER GIROLAMO CARDANO WHO STOLE THE MODERN METHOD OF SOLVING CUBIC EQUATIONS AND PUBLISHED IT IN THE FIRST IMPORTANT BOOK ON ALGEBRA AND THE YOUNG REVOLUTIONARY EVARISTE GALOIS WHO REFASHIONED THE WHOLE OF MATHEMATICS AND FOUNDED THE FIELD OF GROUP THEORY ONLY TO DIE IN A POINTLESS DUEL OVER A WOMAN BEFORE HIS WORK WAS PUBLISHED STEWART ALSO EXPLORES THE STRANGE NUMEROLOGY OF REAL MATHEMATICS IN WHICH PARTICULAR NUMBERS HAVE UNIQUE AND UNPREDICTABLE PROPERTIES RELATED TO SYMMETRY HE SHOWS HOW WILHELM KILLING DISCOVERED LIE GROUPS WITH 14 52 78 133 and 248 DIMENSIONS GROUPS WHOSE VERY EXISTENCE IS A PROFOUND PUZZLE FINALLY STEWART DESCRIBES THE WORLD BEYOND SUPERSTRINGS THE OCTONIONIC SYMMETRIES THAT MAY EXPLAIN THE VERY EXISTENCE OF THE UNIVERSE

Flatterland 2008-08-01

FIRST THERE WAS EDWIN A ABBOTT S REMARKABLE FLATLAND PUBLISHED IN 1884 and ONE OF THE ALL TIME CLASSICS OF POPULAR MATHEMATICS NOW FROM MATHEMATICIAN AND ACCOMPLISHED SCIENCE WRITER IAN STEWART COMES WHAT NATURE CALLS A SUPERB SEQUEL THROUGH LARGER THAN LIFE CHARACTERS AND AN INSPIRED STORY LINE FLATTERLAND EXPLORES OUR PRESENT UNDERSTANDING OF THE SHAPE AND ORIGINS OF THE UNIVERSE THE NATURE OF SPACE TIME AND MATTER AS WELL AS MODERN GEOMETRIES AND THEIR APPLICATIONS THE JOURNEY BEGINS WHEN OUR HEROINE VICTORIA LINE COMES UPON HER GREAT GREAT GRANDFATHER A SQUARE S DIARY HIDDEN IN THE ATTIC THE WRITINGS HELP HER TO CONTACT THE SPACE HOPPER WHO TEMPTS HER AWAY FROM HER HOME AND FAMILY IN FLATLAND AND BECOMES HER GUIDE AND MENTOR THROUGH TEN DIMENSIONS IN THE TRADITION OF ALICE IN WONDERLAND AND THE PHANTOM TOLL BOOTH THIS MAGNIFICENT INVESTIGATION INTO THE NATURE OF REALITY IS DESTINED TO BECOME A MODERN CLASSIC

Nature's Numbers 2014-03-20

A MATHEMATICAL SIGHTSEEING TOUR OF THE NATURAL WORLD FROM THE AUTHOR OF THE MAGICAL MAZE WHY DO MANY FLOWERS HAVE FIVE OR EIGHT PETALS BUT VERY FEW SIX OR SEVEN WHY DO SNOWFLAKES HAVE SIXFOLD SYMMETRY WHY DO TIGERS HAVE STRIPES BUT LEOPARDS HAVE SPOTS MATHEMATICS IS TO NATURE AS SHERLOCK HOLMES IS TO EVIDENCE MATHEMATICS CAN LOOK AT A SINGLE SNOWFLAKE AND DEDUCE THE ATOMIC GEOMETRY OF ITS CRYSTALS IT CAN START WITH A VIOLIN STRING AND UNCOVER THE EXISTENCE OF RADIO WAVES AND MATHEMATICS STILL HAS THE POWER TO OPEN OUR EYES TO NEW AND

UNSUSPECTED REGULARITIES THE SECRET STRUCTURE OF A CLOUD OR THE HIDDEN RHYTHMS OF THE WEATHER THERE ARE PATTERNS IN THE WORLD WE ARE NOW SEEING FOR THE FIRST TIME PATTERNS AT THE FRONTIER OF SCIENCE YET PATTERNS SO SIMPLE THAT ANYBODY CAN SEE THEM ONCE THEY KNOW WHERE TO LOOK

Significant Figures *2017-08-10*

WHICH MATHEMATICIAN ELABORATED A CRUCIAL CONCEPT THE NIGHT BEFORE HE DIED IN A DUEL WHO FUNDED HIS MATHS AND MEDICAL CAREER THROUGH GAMBLING AND CHESS WHO LEARNED MATHS FROM HER WALLPAPER IAN STEWART PRESENTS THE EXTRAORDINARY LIVES AND AMAZING DISCOVERIES OF TWENTY FIVE OF HISTORY S GREATEST MATHEMATICIANS FROM ARCHIMEDES AND LIU HUI TO BENOIT MANDELBROT AND WILLIAM THURSTON HIS SUBJECTS ARE THE INSPIRING INDIVIDUALS FROM ALL OVER THE WORLD WHO HAVE MADE CRUCIAL CONTRIBUTIONS TO MATHEMATICS THEY INCLUDE THE REDISCOVERED GENIUSES SRINIVASA RAMANUJAN AND EMMY NOETHER ALONGSIDE THE TOWERING FIGURES OF MUHAMMAD AL KHWARIZMI INVENTOR OF THE ALGORITHM PIERRE DE FERMAT ISAAC NEWTON CARL FRIEDRICH GAUSS NIKOLAI IVANOVICH LOBACHEVSKY BERNHARD REIMANN PRECURSOR TO EINSTEIN HENRI POINCAR ADA LOVELACE ARGUABLY THE FIRST COMPUTER PROGRAMMER KURT GDEL AND ALAN TURING IAN STEWART S VIVID ACCOUNTS ARE FASCINATING IN THEMSELVES AND TAKEN TOGETHER COHERE INTO A RIVETING HISTORY OF KEY STEPS IN THE DEVELOPMENT OF MATHEMATICS

Another Fine Math You've Got Me Into. . . *2013-02-20*

SIXTEEN COLUMNS FROM THE FRENCH EDITION OF SCIENTIFIC AMERICAN FEATURE ODDBALL CHARACTERS AND WACKY WORDPLAY IN A MATHEMATICAL WONDERLAND OF PUZZLES AND GAMES THAT ALSO IMPARTS SIGNIFICANT MATHEMATICAL IDEAS 1992 EDITION

Taming the Infinite *2015-04-07*

FROM ANCIENT BABYLON TO THE LAST GREAT UNSOLVED PROBLEMS IAN STEWART BRINGS US HIS DEFINITIVE HISTORY OF MATHEMATICS IN HIS FAMOUS STRAIGHTFORWARD STYLE PROFESSOR STEWART EXPLAINS EACH MAJOR DEVELOPMENT FROM THE FIRST NUMBER SYSTEMS TO CHAOS THEORY AND CONSIDERS HOW EACH AFFECTED SOCIETY AND CHANGED EVERYDAY LIFE FOREVER MAINTAINING A PERSONAL TOUCH HE INTRODUCES ALL OF THE OUTSTANDING MATHEMATICIANS OF HISTORY FROM THE KEY BABYLONIANS GREEKS AND EGYPTIANS VIA NEWTON AND DESCARTES TO FERMAT BABBAGE AND GODEL AND DEMYSTIFIES MATH S KEY CONCEPTS WITHOUT RECOURSE TO COMPLICATED FORMULAE WRITTEN TO PROVIDE A CAPTIVATING HISTORIC NARRATIVE FOR THE NON MATHEMATICIAN TAMING THE INFINITE IS PACKED WITH FASCINATING NUGGETS AND QUIRKY ASIDES AND CONTAINS 100 ILLUSTRATIONS AND DIAGRAMS TO ILLUMINATE AND AID UNDERSTANDING OF A SUBJECT

MANY DREAD BUT WHICH HAS MADE OUR WORLD WHAT IT IS TODAY

Five Equations That Changed the World
2012-06-05

A PUBLISHERS WEEKLY BEST BOOK OF 1995 DR MICHAEL GUILLEN KNOWN TO MILLIONS AS THE SCIENCE EDITOR OF ABC S GOOD MORNING AMERICA TELLS THE FASCINATING STORIES BEHIND FIVE MATHEMATICAL EQUATIONS AS A REGULAR CONTRIBUTOR TO DAYTIME S MOST POPULAR MORNING NEWS SHOW AND AN INSTRUCTOR AT HARVARD UNIVERSITY DR MICHAEL GUILLEN HAS EARNED THE RESPECT OF MILLIONS AS A CLEAR AND ENTERTAINING GUIDE TO THE EXHILARATING WORLD OF SCIENCE AND MATHEMATICS NOW DR GUILLEN UNRAVELS THE EQUATIONS THAT HAVE LED TO THE INVENTIONS AND EVENTS THAT CHARACTERIZE THE MODERN WORLD ONE OF WHICH ALBERT EINSTEIN S FAMOUS ENERGY EQUATION E $MC2$ ENABLED THE CREATION OF THE NUCLEAR BOMB ALSO REVEALED ARE THE MATHEMATICAL FOUNDATIONS FOR THE MOON LANDING AIRPLANE TRAVEL THE ELECTRIC GENERATOR AND EVEN LIFE ITSELF PRAISED BY PUBLISHERS WEEKLY AS A WHOLLY ACCESSIBLE BEAUTIFULLY WRITTEN EXPLORATION OF THE POTENT MATHEMATICAL IMAGINATION AND NAMED A BEST NONFICTION BOOK OF 1995 THE STORIES BEHIND THE FIVE EQUATIONS THAT CHANGED THE WORLD AS TOLD BY DR GUILLEN ARE NOT ONLY CHRONICLES OF SCIENCE BUT ALSO GRIPPING DRAMAS OF JEALOUSY FAME WAR AND DISCOVERY

Professor Stewart's Incredible Numbers 2015-03-19

IAN STEWART EXPLORES THE ASTONISHING PROPERTIES OF NUMBERS FROM 1 TO 10 TO ZERO AND INFINITY INCLUDING ONE FIGURE THAT IF YOU WROTE IT OUT WOULD SPAN THE UNIVERSE HE LOOKS AT EVERY KIND OF NUMBER YOU CAN THINK OF REAL IMAGINARY RATIONAL IRRATIONAL POSITIVE AND NEGATIVE ALONG WITH SEVERAL YOU MIGHT HAVE THOUGHT YOU COULDN T THINK OF HE EXPLAINS THE INSIGHTS OF THE ANCIENT MATHEMATICIANS SHOWS HOW NUMBERS HAVE EVOLVED THROUGH THE AGES AND REVEALS THE WAY NUMERICAL THEORY ENABLES EVERYDAY LIFE UNDER PROFESSOR STEWART S GUIDANCE YOU WILL DISCOVER THE MATHEMATICS OF CODES SUDOKU RUBIK S CUBE MUSIC PRIMES AND PI YOU MAY BE SURPRISED TO FIND YOU LIVE IN ELEVEN DIMENSIONAL SPACE THAT OF THE TWENTY THREE PEOPLE ON A FOOTBALL PITCH TWO ARE MORE LIKELY THAN NOT TO SHARE THE SAME BIRTHDAY AND THAT FORTY TWO IS A VERY INTERESTING NUMBER PROFESSOR STEWART S INCREDIBLE NUMBERS WILL DELIGHT EVERYONE WHO LOVES NUMBERS INCLUDING THOSE WHO CURRENTLY THINK THEY DON T

Ambushed 2002

WITH FRANKNESS STEWART TELLS THE STORY OF HIS OWN REMARKABLE RECOVERY AS WELL AS THE EXTRAORDINARY RISKS HE AND OTHER JOURNALISTS TAKE TO REPORT THE NEWS FROM REMOTE WAR RAVAGED COUNTRIES

Does God Play Dice? *1997-06-26*

SINCE THE DRAMATIC DISCOVERY OF THE MATHEMATICAL CONCEPT OF CHAOS IN 1989 THE CONTROVERSY OF ITS CONTENTS HAS SETTLED DOWN THIS REVISED EDITION OF DOES GOD PLAY DICE TAKES A FRESH LOOK AT ITS ACHIEVEMENTS AND POTENTIAL WITH A NEW PREFACE AND THREE COMPLETELY NEW CHAPTERS IT INCLUDES THE LATEST PRACTICAL APPLICATIONS OF CHAOS THEORY SUCH AS DEVELOPING INTELLIGENT HEART PACEMAKERS ALL THIS PROVIDES A FASCINATING NEW ANSWER TO EINSTIEN S QUESTION WHICH PROVIDED THE TITLE OF THIS BOOK

Complex Analysis *2018-08-23*

A NEW EDITION OF A CLASSIC TEXTBOOK ON COMPLEX ANALYSIS WITH AN EMPHASIS ON TRANSLATING VISUAL INTUITION TO RIGOROUS PROOF

From Here to Infinity *1996*

A RETITLED AND REVISED EDITION OF IAN STEWART S THE PROBLEM OF MATHEMATICS THIS IS THE PERFECT GUIDE TO TODAY S MATHEMATICS READ ABOUT THE LATEST DISCOVERIES INCLUDING ANDREW WILE S AMAZING PROOF OF FERMAT S LAST THEOREM THE NEWEST ADVANCES IN KNOT THEORY THE FOUR COLOUR THEOREM CHAOS THEORY AND FAKE FOUR DIMENSIAL SPACES SEE HOW SIMPLE CONCEPTS FROM PROBABILITY THEORY SHED LIGHT ON THE NATIONAL LOTTERY AND TELL YOU HOW TO MAXIMIZE YOUR WINNINGS DISCOVER HOWINFINITESIMALS BECOME RESPECTABLE WHY THERE ARE DIFFERENT KINDS OF INFINITY AND HOW TO SQUARE THE CIRCLE WITH THE MATHEMATICAL EQUIVALENT OF A PAIR OF SCISSORS

Life's Other Secret *1998*

UNTIL THE MIDDLE OF THIS CENTURY IT WAS COMPLETELY UNCLEAR WHETHER LIFE HAD ANY KIND OF INORGANIC BASIS THE DISCOVERY OF THE FIRST SECRET OF LIFE THE MOLECULAR STRUCTURE OF DNA SOLVED THAT PARTICULAR RIDDLE

How to Cut a Cake *2006*

THIS VOLUME CONTAINS 20 CURIOUS PUZZLES AND FANTASTICAL MATHEMATICAL STORIES FROM ONE OF THE WORLD S MOST POPULAR AND ACCESSIBLE WRITERS ON MATHEMATICS

The Problems of Mathematics *1992*

FOR THE SECOND EDITION OF THIS INTRODUCTION TO TODAY S MATHEMATICS IAN STEWART HAS REVISED THE TEXT TO TAKE ACCOUNT OF RECENT DEVELOPMENTS IN THE FIELD THERE ARE THREE NEW CHAPTERS INCLUDING ONE ON KEPLER S SPHERE PACKING PROBLEM WHICH HAS TAKEN 380 YEARS TO SOLVE

Algebraic Number Theory and Fermat's Last Theorem *2001-12-12*

FIRST PUBLISHED IN 1979 AND WRITTEN BY TWO DISTINGUISHED MATHEMATICIANS WITH A SPECIAL GIFT FOR EXPOSITION THIS BOOK IS NOW AVAILABLE IN A COMPLETELY REVISED THIRD EDITION IT REFLECTS THE EXCITING DEVELOPMENTS IN NUMBER THEORY DURING THE PAST TWO DECADES THAT CULMINATED IN THE PROOF OF FERMAT S LAST THEOREM INTENDED AS A UPPER LEVEL TEXTBOOK IT

The Art of C Programming *2012-12-06*

THE PROGRAMMING LANGUAGE C OCCUPIES AN UNUSUAL POSITION MIDWAY BETWEEN CONVENTIONAL HIGH LEVEL AND ASSEMBLY LANGUAGES ALLOWING THE PROGRAMMER TO COMBINE THE BEST FEATURES OF BOTH THIS BOOK IS AN INTRODUCTION TO THE LANGUAGE ITSELF AND TO THE SPECIAL STYLE OF THINKING THAT GOES WITH IT ANYONE WISHING TO LEARN C IS LIKELY TO HAVE SOME EXPERIENCE IN A HIGH LEVEL LANGUAGE SUCH AS BASIC OR PASCAL AND IT SEEMS SENSIBLE TO MAKE USE OF THAT EXPERIENCE WE THEREFORE ASSUME SOME FACILITY WITH CONVENTIONAL NOTATION FOR COMPUTER ARITH METIC AND SIMPLE NOTIONS SUCH AS LOOPING AND BRANCHING COMMON TO MOST HIGH LEVEL LANGUAGES HOWEVER THAT CANNOT BE THE WHOLE STORY ONE CANNOT LEARN TO SPEAK COLLOQUIAL FRENCH BY THINKING IN ENGLISH AND PERFORMING A ROUTINE TRANSLATION NO MORE CAN ONE LEARN TO PROGRAM IN COLLOQUIAL C BY THINKING IN BASIC AND PERFORMING A ROUTINE TRANSLATION HOWEVER WHEN LEARNING FRENCH IT IS NORMAL TO ASSUME FAMILIARITY WITH ENGLISH BUILDING ON THAT IN THE EARLY STAGES THEREBY CREATING THE CONFIDENCE NECESSARY TO PROVIDE THAT MOT JUSTE TO WHICH NOTHING CORRESPONDING EXISTS IN ENGLISH OUR APPROACH TO C IS SIMILAR IN PARTICULAR WE DO NOT INTRODUCE AT THE VERY BEGINNING SOME OF THE FEATURES OF C WHICH EVENTUALLY LEAD TO MORE EFFICIENT AND ELEGANT CODE FOR EXAMPLE THE ABILITY TO DO SEVERAL THINGS APPARENTLY AT ONCE INITIALLY SUCH CONSTRUCTS CAN BE CONFUSING ONCE THE READER HAS ACQUIRED SOME FACILITY WITH THE LANGUAGE IT THEN BECOMES POSSIBLE TO BRING THESE FEATURES INTO PLAY IN A NATURAL MANNER

Transactional Analysis Counselling in Action
2007-11-21

SAGE CELEBRATED THE 20TH ANNIVERSARY OF THE COUNSELLING IN ACTION IN NOVEMBER 2008 TO VIEW THE VIDEO CLICK HERE PRAISE FOR THE FIRST EDITION IAN STEWART HAS MADE THE DIFFICULT LINK BETWEEN THEORY AND PRACTICE CLEAR WITHOUT BEING PATRONIZING THIS IS VALUABLE FOR EVERYONE INTERESTED IN TA SINCE MANY CONCEPTS CAN ONLY BE FULLY ASSIMILATED WHEN LINKED TO ACTUAL EXAMPLES EVEN IF YOU ARE NOT IN CLINICAL PRACTICE THIS BOOK WOULD BE A USEFUL ADDITION TO YOUR LIBRARY AND FOR ANYONE IN TRAINING OR BEGINNING PRACTICE THIS IS REQUIRED READING GROUP RELATIONS TRANSACTIONAL ANALYSIS COUNSELLING IN ACTION THIRD EDITION MEETS A DEMAND FOR A CLEARLY WRITTEN STEP BY STEP ACCOUNT OF THE PROCESS AND PRACTICE OF USING TRANSACTIONAL ANALYSIS TO PROMOTE PERSONAL CHANGE THIS BOOK RETAINS THE SUCCESSFUL OVERALL STRUCTURE AND ORGANISATION OF THE POPULAR EARLIER EDITIONS BUT HAS BEEN FULLY REVISED KEY FEATURES OF THIS NEW EDITION INCLUDE CONCISE HANDS ON DESCRIPTIONS OF CURRENT TECHNIQUES AND CONCEPTS IN TRANSACTIONAL ANALYSIS PRESENTED IN AN ACCESSIBLE STYLE THAT IS IMMEDIATELY USEFUL TO THE PRACTITIONER THE SEQUENCE OF CHAPTERS ORDERED TO REFLECT SUCCESSIVE STAGES IN THE TYPICAL PROCESS OF THERAPEUTIC CHANGE USING TRANSACTIONAL ANALYSIS THIS ASSISTS IN BUILDING UNDERSTANDING AND APPLICATION OF TRANSACTIONAL ANALYSIS STEP BY STEP IN THE ORDER THAT IS LIKELY TO ARISE DURING ACTUAL PSYCHOTHERAPY OR COUNSELLING EXPANDED DISCUSSION OF THE PROTECTIVE PROCEDURE KNOWN AS CLOSING THE ESCAPE HATCHES NO SUICIDE NO HOMICIDE NO GO CRAZY DECISION INCLUDING POSSIBLE CONTRA INDICATIONS A SINGLE EXTENDED CASE HISTORY THAT RUNS THROUGH THE BOOK TO ILLUSTRATE PRACTICE AND THEORY KEY IDEAS PANELS WHICH PROVIDE SUMMARIES OF THE MAIN IDEAS THAT ARE DESCRIBED IN EACH SECTION OR CHAPTER SELF SUPERVISION SEQUENCES OFFERING SUGGESTED CHECKLISTS OF QUESTIONS THAT READERS CAN USE IN APPRAISING THEIR OWN WORK WITH CLIENTS IN THIS REVISED THIRD EDITION OF HIS BESTSELLING GUIDE IAN STEWART OFFERS TRAINEE AND PRACTISING PSYCHOTHERAPISTS AND COUNSELLORS AN INTRODUCTION TO THE CORE CONCEPTS AND BASIC TECHNIQUES OF TRANSACTIONAL ANALYSIS IAN STEWART IS CO DIRECTOR OF THE BERNE INSTITUTE NOTTINGHAM HE IS ACCREDITED BY THE ITAA AND THE EATA AS A TEACHING AND SUPERVISING TRANSACTIONAL ANALYST

Math Hysteria 2004-05-13

WELCOME TO IAN STEWART S STRANGE AND MAGICAL WORLD OF MATHEMATICS IN MATH HYSTERIA PROFESSOR STEWART PRESENTS US WITH A WEALTH OF MAGICAL PUZZLES EACH ONE SPUN AROUND AN AMAZING TALE COUNTING THE CATTLE OF THE SUN THE GREAT DRAIN ROBBERY AND PREPOSTEROUS PIRATICAL PREDICAMENTS TO NAME BUT A FEW ALONG THE WAY WE ALSO MEET MANY CURIOUS CHARACTERS IN SHORT THESE STORIES ARE ENGAGING CHALLENGING AND LOTS OF FUN

Calculating the Cosmos *2016-09-15*

IAN STEWART S UP TO THE MINUTE GUIDE TO THE COSMOS MOVES FROM THE FORMATION OF THE EARTH AND ITS MOON TO THE PLANETS AND ASTEROIDS OF THE SOLAR SYSTEM AND FROM THERE OUT INTO THE GALAXY AND THE UNIVERSE HE DESCRIBES THE ARCHITECTURE OF SPACE AND TIME DARK MATTER AND DARK ENERGY HOW GALAXIES FORM WHY STARS IMPLODE HOW EVERYTHING BEGAN AND HOW IT WILL END HE CONSIDERS PARALLEL UNIVERSES WHAT FORMS EXTRA TERRESTRIAL LIFE MIGHT TAKE AND THE LIKELIHOOD OF EARTH BEING HIT BY AN ASTEROID MATHEMATICS PROFESSOR STEWART SHOWS HAS BEEN THE DRIVING FORCE IN ASTRONOMY AND COSMOLOGY SINCE THE ANCIENT BABYLONIANS HE DESCRIBES HOW KEPLER S WORK ON PLANETARY ORBITS LED NEWTON TO FORMULATE HIS THEORY OF GRAVITY AND HOW TWO CENTURIES LATER IRREGULARITIES IN THE MOTION OF MARS INSPIRED EINSTEIN S THEORY OF GENERAL RELATIVITY IN CRYSTAL CLEAR TERMS HE EXPLAINS THE FUNDAMENTALS OF GRAVITY SPACETIME RELATIVITY AND QUANTUM THEORY AND SHOWS HOW THEY ALL RELATE TO EACH OTHER EIGHTY YEARS AGO THE DISCOVERY THAT THE UNIVERSE IS EXPANDING LED TO THE BIG BANG THEORY OF ITS ORIGINS THIS IN TURN LED COSMOLOGISTS TO POSIT FEATURES SUCH AS DARK MATTER AND DARK ENERGY BUT DOES DARK MATTER EXIST COULD ANOTHER SCIENTIFIC REVOLUTION BE ON THE WAY TO CHALLENGE CURRENT SCIENTIFIC ORTHODOXY THESE ARE AMONG THE QUESTIONS IAN STEWART RAISES IN HIS QUEST THROUGH THE REALMS OF ASTRONOMY AND COSMOLOGY

Professor Stewart's Casebook of Mathematical Mysteries *2014-10-02*

LIKE ITS WILDLY POPULAR PREDECESSORS CABINET OF MATHEMATICAL CURIOSITIES AND HOARD OF MATHEMATICAL TREASURES PROFESSOR STEWART S BRAND NEW BOOK IS A MISCELLANY OF OVER 150 MATHEMATICAL CURIOS AND CONUNDRUMS PACKED WITH TRADEMARK HUMOUR AND NUMEROUS ILLUSTRATIONS IN ADDITION TO THE FASCINATING FORMULAE AND THRILLING THEOREMS FAMILIAR TO PROFESSOR STEWART S FANS THE CASEBOOK FOLLOWS THE ADVENTURES OF THE NOT SO GREAT DETECTIVE HEMLOCK SOAMES AND HIS SIDEKICK DR JOHN WATSUP IMMORTALISED IN THE PHRASE WATSUP DOC BY A REMARKABLE COINCIDENCE THEY LIVE AT 222B BAKER STREET JUST ACROSS THE ROAD FROM THEIR MORE ILLUSTRIOUS NEIGHBOUR WHO FOR REASONS KNOWN ONLY TO DR WATSUP IS NEVER MENTIONED BY NAME A TYPICAL ITEM IS THE CASE OF THE FACE DOWN ACES A MATHEMATICAL MAGIC TRICK OF QUITE DEVILISH CUNNING RANGING FROM ONE LINERS TO FOUR PAGE INVESTIGATIONS FROM THE FRONTIERS OF MATHEMATICAL RESEARCH THE CASEBOOK REVEALS PROFESSOR STEWART AT HIS CHALLENGING AND ENTERTAINING BEST

The Magical Maze *1998-03-11*

ENTER THE MAGICAL MAZE OF MATHEMATICS AND EXPLORE THE SURPRISING PASSAGEWAYS OF A FANTASTICAL WORLD WHERE LOGIC AND IMAGINATION CONVERGE FOR MATHEMATICS IS

A MAZE A MAZE IN YOUR HEAD A MAZE OF IDEAS A MAZE OF LOGIC AND THAT MAZE IN YOUR MIND IS A POWERFUL TOOL FOR UNDERSTANDING AN EVEN BIGGER MAZE THE ONE OF CAUSE AND EFFECT THAT WE CALL THE UNIVERSE THAT IS ITS SPECIAL KIND OF MAGIC REAL MAGIC STRANGE MAGIC INFINITELY FASCINATING MAGIC ACCLAIMED AUTHOR IAN STEWART LEADS YOU SWIFTLY AND HUMOROUSLY THROUGH THE JUNCTIONS BYWAYS AND SECRET PASSAGES OF THE MAGICAL MAZE TO REVEAL ITS BEAUTY SURPRISE AND POWER ALONG THE WAY HE REVEALS THE INFINITE POSSIBILITIES THAT ARISE FROM WHAT HE CALLS THE TWO WAY TRADE BETWEEN THE NATURAL WORLD AND THE HUMAN MIND IF YOU VE ALWAYS LOVED MATHEMATICS YOU WILL FIND ENDLESS DELIGHTS IN THE TWISTS AND TURNS OF THE MAGICAL MAZE IF YOU VE ALWAYS HATED MATHEMATICS A TRIP THROUGH THIS MARVELOUS BOOK WILL DO MUCH TO CHANGE YOUR MIND

JUST ONE VOTE *2009-04-30*

ON JANUARY 12 1986 JIM WALDING WAS NOMINATED AS THE NEW DEMOCRATIC PARTY CANDIDATE FOR THE MANITOBA CONSTITUENCY OF ST VITAL ALTHOUGH WALDING HAD BEEN AN MLA FOR FIFTEEN YEARS HE HAD FALLEN OUT OF FAVOUR WITH KEY ELEMENTS IN HIS PARTY AND WON THE NOMINATION BY ONLY A SINGLE VOTE WALDING WENT ON IN TURN TO BRING DOWN HIS OWN GOVERNMENT BY A SINGLE VOTE MARKING THE ONLY TIME IN THE HISTORY OF CANADIAN POLITICS THAT A MAJORITY GOVERNMENT WAS BROUGHT DOWN FROM WITHIN COMBINING DATA DRAWN FROM ARCHIVES INTERVIEWS AND THE MEDIA JUST ONE VOTE IS A VIVID AND EXCEPTIONALLY DETAILED STUDY OF THE NOMINATION PROCESS IAN STEWART OUTLINES THE GEOGRAPHIC SOCIAL AND POLITICAL BACKDROP BEHIND WALDING S CONTESTED PARTY NOMINATION THE UNUSUAL CHAIN OF EVENTS TRIGGERED BY THE CONTESTATION INCLUDING THE FALL OF THE PAWLEY GOVERNMENT AND THE NDP S DEFEAT IN THE 1988 PROVINCIAL ELECTION AND EXAMINES THE FALLOUT FROM THESE EVENTS ON MANITOBANS AND CANADIANS

FIGMENTS OF REALITY *1997-07-28*

PEPPERED WITH WIT AND CONTROVERSIAL TOPICS THIS IS A REFRESHING NEW LOOK AT THE CO EVOLUTION OF MIND AND CULTURE BESTSELLING AUTHORS IAN STEWART AND JACK COHEN THE COLLAPSE OF CHAOS 1994 ELOQUENTLY ARGUE THAT OUR MINDS EVOLVED WITHIN AN INEXTRICABLE LINK WITH CULTURE AND LANGUAGE THEY GO BEYOND CONVENTIONAL VIEWS OF THE FUNCTION AND PURPOSE OF THE MIND TO LOOK AT THE WAYS THAT THE MIND IS THE RESPONSE OF AN EVOLVING BRAIN THAT IS CONSTANTLY ADJUSTING TO A COMPLEX ENVIRONMENT ALONG THE WAY THEY DEVELOP NEW AND INTRIGUING INSIGHTS INTO THE NATURE OF EVOLUTION SCIENCE AND HUMANITY THAT WILL CHALLENGE CONVENTIONAL VIEWS ON CONSCIOUSNESS THE ESTEEMED AUTHORS TANTALIZE THE READER WITH THESE BOLD NEW OUTLOOKS WHILE PUTTING A REVOLUTIONARY SPIN ON SUCH CLASSIC PHILOSOPHICAL PROBLEMS AS THE NATURE OF FREE WILL AND THE ESSENCE OF HUMANITY THIS CLEARLY WRITTEN AND ENJOYABLE BOOK WILL INSPIRE ANY EDUCATED READER TO CRITICALLY EVALUATE THE EXISTING NOTIONS OF THE NATURE OF THE HUMAN

MIND

Game, Set and Math 2013-02-04

TWELVE ESSAYS TAKE A PLAYFUL APPROACH TO MATHEMATICS INVESTIGATING THE TOPOLOGY OF A BLANKET THE ODDS OF BEATING A SUPERIOR TENNIS PLAYER AND HOW TO DISTINGUISH BETWEEN FACT AND FALLACY

Companion to Contemporary Economic Thought 1992-01-09

41 IN DEPTH ESSAYS COVER CURRENT ECONOMIC THEORY AND APPLIED ECONOMICS IN A SINGLE COMPREHENSIVE VOLUME INTERFACES SECTION CONSIDERS ECONOMICS AS IT RELATES TO OTHER DISCIPLINES EXTENSIVE NOTES BIBLIOGRAPHIES AND SUGGESTIONS FOR FURTHER READING DETAILED INDEX OF TOPICS AND PEOPLE A TREASURE HOUSE OF STIMULATING ARGUMENT AND VAST AMOUNTS OF MOSTLY WELL MARSHALLED INFORMATION THE MARKET FOR GENERAL SURVEY VOLUMES WHILE ALREADY CROWDED SHOULD SURELY FIND ROOM FOR THIS OFFERING THE WORLD ECONOMY THE WORK UNDER REVIEW SCORES VERY HIGH MARKS THE ECONOMIC JOURNAL THE CHAPTERS ARE WRITTEN BY PEOPLE WHO ARE EXCELLENTLY QUALIFIED AND FREQUENTLY WELL KNOWN IN THEIR FIELD THE BOOK S STRENGTHS LIE IN THE RANGE OF CONTRIBUTORS THE VERY HIGH QUALITY OF MOST OF THE CONTRIBUTORS AND ITS EMPHASIS ON APPLIED ECONOMICS FOR THESE REASONS ALONE IT IS AN IMPORTANT BOOK WHICH WILL BE INVALUABLE BOTH TO STUDENTS AND TO ECONOMISTS WISHING TO LEARN ABOUT DEVELOPMENTS IN OTHER BRANCHES OF THEIR DISCIPLINE ECONOMICA

The Symmetry Perspective 2012-12-06

THE FRAMEWORK OF SYMMETRY PROVIDES AN IMPORTANT ROUTE BETWEEN THE ABSTRACT THEORY AND EXPERIMENTAL OBSERVATIONS THE BOOK APPLIES SYMMETRY METHODS TO DYNAMICAL SYSTEMS FOCUSING ON BIFURCATION AND CHAOS THEORY ITS EXPOSITION IS ORGANIZED AROUND A WIDE VARIETY OF RELEVANT APPLICATIONS FROM THE REVIEWS THE RICH COLLECTION OF EXAMPLES MAKES THE BOOK EXTREMELY USEFUL FOR MOTIVATION AND FOR SPREADING THE IDEAS TO A LARGE COMMUNITY MATHEMATICAL REVIEWS

Systems Leadership 2018-05-24

THE NEW EDITION OF THIS INFLUENTIAL AND BESTSELLING BOOK IS CONCERNED WITH HOW PEOPLE COME TOGETHER TO ACHIEVE A PRODUCTIVE PURPOSE SURVIVAL AND SUCCESS IN BUSINESS AND SOCIAL TERMS HAVE ALWAYS DEPENDED UPON OUR ABILITY TO FORM AND SUSTAIN SOCIAL ORGANISATIONS PEOPLE HAVE A DEEP NEED TO BE CREATIVE AND TO BELONG BY CREATING POSITIVE ORGANISATIONS WE CAN FULFIL THESE NEEDS AND BUILD A

WORTHWHILE SOCIETY ONE OF THE FAILURES OF ORGANISATIONS IS PRECISELY THE LACK OF EFFICIENT AND EFFECTIVE SOCIAL ORGANISATION WHICH IS WHAT THIS WHOLE BOOK IS ABOUT POOR SOCIAL ORGANISATION INCLUDING POOR LEADERSHIP ARE MAJOR DRIVERS OF POOR PRODUCTIVITY AND LEAD PEOPLE TO GIVE UP OR RETREAT INTO A MINIMALIST APPROACH OF JUST DOING WHAT IS NEEDED TO GET BY AND SURVIVE THE AUTHORS PROVIDE A LANGUAGE FOR DEVELOPING DISCUSSING THINKING AND WORKING WITH PROPOSITIONS ABOUT ORGANISATIONS AND MANAGEMENT THEY DO NOT TELL YOU WHAT DECISION TO MAKE BUT RATHER PRESENT TOOLS TO HELP YOU CONSIDER ANALYSE AND PREDICT THE CONSEQUENCES OF YOUR DECISIONS THIS NEW EDITION IS MUCH BROADER IN ITS APPLICATION AREAS PUBLIC PRIVATE AND NOT FOR PROFIT SECTORS IT CONTAINS NEW MODELS AND PROPOSITIONS WITH REGARD TO TYPES OF SOCIAL ORGANISATION DOMAINS OF WORK AND THE NATURE AND USE OF AUTHORITY IT CONTAINS A RANGE OF NEW CASE STUDIES AND THROUGHOUT LOOKS AT HOW THESE IDEAS CAN BE USED TO ACHIEVE AN ORGANISATION S PURPOSE WHILE ENCOURAGING CREATIVE WORKING IT IS NOT A BOOK ABOUT FADS OR FASHION BUT AN INTEGRATED APPROACH THAT OFFERS THE USER THE BENEFIT OF FORESIGHT

Singularities and Groups in Bifurcation Theory 2013-11-27

THIS BOOK HAS BEEN WRITTEN IN A FRANKLY PARTISIAN SPIRIT WE BELIEVE THAT SINGULARITY THEORY OFFERS AN EXTREMELY USEFUL APPROACH TO BIFURCATION PROB LEMS AND WE HOPE TO CONVERT THE READER TO THIS VIEW IN THIS PREFACE WE WILL DISCUSS WHAT WE FEEL ARE THE STRENGTHS OF THE SINGULARITY THEORY APPROACH THIS DISCUSSION THEN IEADS NATURALLY INTO A DISCUSSION OF THE CONTENTS OF THE BOOK AND THE PREREQUISITES FOR READING IT LET US EMPHASIZE THAT OUR PRINCIPAL CONTRIBUTION IN THIS AREA HAS BEEN TO APPLY PRE EXISTING TECHNIQUES FROM SINGULARITY THEORY ESPECIALLY UNFOLDING THEORY AND CLASSIFICATION THEORY TO BIFURCATION PROBLEMS MANY OFTHE IDEAS IN THIS PART OF SINGULARITY THEORY WERE ORIGINALLY PROPOSED BY RENE THOM THE SUBJECT WAS THEN DEVELOPED RIGOROUSLY BY JOHN MATHERAND EXTENDED BY V I ARNOLD IN APPLYING THIS MATERIAL TO BIFURCATION PROBLEMS WE WERE GREATLY ENCOURAGED BY HOW WEIL THE MATHEMATICAL IDEAS OF SINGULARITY THEORY MESHED WITH THE QUESTIONS ADDRESSED BY BIFURCATION THEORY CONCERNING OUR TITLE SINGULARITIES AND GROUPS IN BIFURCATION THEORY IT SHOULD BE MENTIONED THAT THE PRESENT TEXT IS THE FIRST VOLUME IN A TWO VOLUME SEQUENCE IN THIS VOLUME OUR EMPHASIS IS ON SINGULARITY THEORY WITH GROUP THEORY PLAYING A SUBORDINATE ROLE IN VOLUME II THE EMPHASIS WILL BE MORE BALANCED HAVING MADE THESE REMARKS IET US SET THE CONTEXT FOR THE DISCUSSION OF THE STRENGTHS OF THE SINGULARITY THEORY APPROACH TO BIFURCATION AS WE USE THE TERM BIFURCATION THEORY IS THE STUDY OF EQUATIONS WITH MULTIPLE SOLUTIONS

The Beauty of Numbers in Nature 2017-03-29

THINK OF A ZEBRA S STRIPES THE COMPLEXITIES OF A SPIDER S WEB THE UNIFORMITY OF DESERT DUNES OR THE SPIRALS IN A SUNFLOWER HEAD THINK OF A SNOWFLAKE THE BEAUTY OF NUMBERS IN NATURE SHOWS HOW LIFE ON EARTH FORMS THE PRINCIPLES OF MATHEMATICS STARTING WITH THE SIMPLEST PATTERNS EACH CHAPTER LOOKS AT A DIFFERENT KIND OF PATTERNING SYSTEM AND THE MATHEMATICS THAT UNDERLIES IT IN DOING SO THE BOOK ALSO UNCOVERS SOME UNIVERSAL PATTERNS BOTH IN NATURE AND MAN MADE FROM THE BASIC GEOMETRY OF ANCIENT GREECE TO THE VISUALLY STARTLING FRACTALS THAT WE ARE FAMILIAR WITH TODAY ELEGANTLY ILLUSTRATED THE BEAUTY OF NUMBERS IN NATURE IS AN ILLUMINATING AND ENGAGING VISION OF HOW THE APPARENTLY COLD LAWS OF MATHEMATICS FIND EXPRESSION IN THE BEAUTY OF NATURE