

MATHEMATICAL OLYMPIAD PROBLEMS AND SOLUTIONS

A FIRST STEP TO MATHEMATICAL OLYMPIAD PROBLEMS
PROBLEMS AND SOLUTIONS IN MATHEMATICAL OLYMPIAD (SECONDARY 2)
A SECOND STEP TO MATHEMATICAL OLYMPIAD PROBLEMS
PHYSICS OLYMPIAD: PROBLEMS AND SOLUTIONS
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THE IMO COMPENDIUM
DEREK ALLAN HOLTON XIONG-HUI ZHAO
DEREK ALLAN HOLTON MIHAIL SANDU
STEVE DINH BIN XIONG
BIN XIONG
BIN XIONG
MICHAEL A. RADIN
BIN XIONG
MIHAIL SANDU
YONGLING ZHENG
MICHAEL C. G. BIN XIONG
JUN GE
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DU [?] AN DJUKI [?]

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SEE ALSO A SECOND STEP TO MATHEMATICAL OLYMPIAD PROBLEMS
THE INTERNATIONAL MATHEMATICAL OLYMPIAD
IMO IS AN ANNUAL INTERNATIONAL MATHEMATICS COMPETITION HELD FOR PRE COLLEGIATE STUDENTS IT IS ALSO THE OLDEST OF THE INTERNATIONAL SCIENCE OLYMPIADS AND COMPETITION FOR PLACES IS PARTICULARLY FIERCE THIS BOOK IS AN AMALGAMATION OF THE FIRST 8 OF 15 BOOKLETS ORIGINALLY PRODUCED TO GUIDE STUDENTS INTENDING TO CONTEND FOR PLACEMENT ON THEIR COUNTRY'S IMO TEAM THE MATERIAL CONTAINED IN THIS BOOK PROVIDES AN INTRODUCTION TO THE MAIN MATHEMATICAL TOPICS COVERED IN THE IMO WHICH ARE COMBINATORICS GEOMETRY AND NUMBER THEORY IN ADDITION THERE IS A SPECIAL EMPHASIS ON HOW TO APPROACH UNSEEN QUESTIONS IN MATHEMATICS AND MODEL THE WRITING OF PROOFS FULL ANSWERS ARE GIVEN TO ALL QUESTIONS THOUGH A FIRST STEP TO MATHEMATICAL OLYMPIAD PROBLEMS IS WRITTEN FROM THE PERSPECTIVE OF A MATHEMATICIAN IT IS

WRITTEN IN A WAY THAT MAKES IT EASILY COMPREHENSIBLE TO ADOLESCENTS THIS BOOK IS ALSO A MUST READ FOR COACHES AND INSTRUCTORS OF MATHEMATICAL COMPETITIONS

THE SERIES IS EDITED BY THE HEAD COACHES OF CHINA'S IMO NATIONAL TEAM EACH VOLUME CATERING TO DIFFERENT GRADES IS CONTRIBUTED BY THE SENIOR COACHES OF THE IMO NATIONAL TEAM THE CHINESE EDITION HAS WON THE AWARD OF TOP 50 MOST INFLUENTIAL EDUCATIONAL BRANDS IN CHINA THE SERIES IS CREATED IN LINE WITH THE MATHEMATICS COGNITION AND INTELLECTUAL DEVELOPMENT LEVELS OF THE STUDENTS IN THE CORRESPONDING GRADES ALL HOT MATHEMATICS TOPICS OF THE COMPETITION ARE INCLUDED IN THE VOLUMES AND ARE ORGANIZED INTO CHAPTERS WHERE CONCEPTS AND METHODS ARE GRADUALLY INTRODUCED TO EQUIP THE STUDENTS WITH NECESSARY KNOWLEDGE UNTIL THEY CAN FINALLY REACH THE COMPETITION LEVEL IN EACH CHAPTER WELL DESIGNED PROBLEMS INCLUDING THOSE COLLECTED FROM REAL COMPETITIONS ARE PROVIDED SO THAT THE STUDENTS CAN APPLY THE SKILLS AND STRATEGIES THEY HAVE LEARNED TO SOLVE THESE PROBLEMS DETAILED SOLUTIONS ARE PROVIDED SELECTIVELY AS A FEATURE OF THE SERIES WE ALSO INCLUDE SOME SOLUTIONS GENEROUSLY OFFERED BY THE MEMBERS OF CHINESE NATIONAL TEAM AND NATIONAL TRAINING TEAM

THE INTERNATIONAL MATHEMATICAL OLYMPIAD IMO IS AN ANNUAL INTERNATIONAL MATHEMATICS COMPETITION HELD FOR PRE COLLEGIATE STUDENTS IT IS ALSO THE OLDEST OF THE INTERNATIONAL SCIENCE OLYMPIADS AND COMPETITION FOR PLACES IS PARTICULARLY FIERCE THIS BOOK IS AN AMALGAMATION OF THE BOOKLETS ORIGINALLY PRODUCED TO GUIDE STUDENTS INTENDING TO CONTEND FOR PLACEMENT ON THEIR COUNTRY'S IMO TEAM SEE ALSO A FIRST STEP TO MATHEMATICAL OLYMPIAD PROBLEMS WHICH WAS PUBLISHED IN 2009 THE MATERIAL CONTAINED IN THIS BOOK PROVIDES AN INTRODUCTION TO THE MAIN MATHEMATICAL TOPICS COVERED IN THE IMO WHICH ARE COMBINATORICS GEOMETRY AND NUMBER THEORY IN ADDITION THERE IS A SPECIAL EMPHASIS ON HOW TO APPROACH UNSEEN QUESTIONS IN MATHEMATICS AND MODEL THE WRITING OF PROOFS FULL ANSWERS ARE GIVEN TO ALL QUESTIONS THOUGH A SECOND STEP TO MATHEMATICAL OLYMPIAD PROBLEMS IS WRITTEN FROM THE PERSPECTIVE OF A MATHEMATICIAN IT IS WRITTEN IN A WAY THAT MAKES IT EASILY COMPREHENSIBLE TO ADOLESCENTS THIS BOOK IS ALSO A MUST READ FOR COACHES AND INSTRUCTORS OF MATHEMATICAL COMPETITIONS

THIS COLLECTION OF PHYSICS PROBLEMS AND SOLUTIONS IS PERFECT FOR ANY ASPIRING PHYSICIST PARTICIPATING IN OLYMPIADS OR OTHER SCHOOL COMPETITIONS THE PROBLEMS INCLUDED IN THIS VOLUME HAVE BEEN TRIED AND TESTED IN OFFICIAL COMPETITIONS REPRESENTING TEN ITERATIONS OF THE INTERNATIONAL PRE OLYMPIC PHYSICS CONTEST HELD BETWEEN ROMANIA HUNGARY AND MOLDOVA THE PROBLEMS INCLUDED COVER A BROAD SPECTRUM OF RELEVANT TOPICS AND ARE DESIGNED TO INSPIRE CRITICAL THINKING AND SHARPEN PROBLEM SOLVING SKILLS ENRICHING STUDENTS UNDERSTANDING AND ENJOYMENT OF PHYSICS BEYOND THE STANDARD SCHOOL CURRICULUM EACH PROBLEM IS ACCOMPANIED BY HELPFUL DIAGRAMS AND DETAILED SOLUTIONS PROVIDING READERS WITH CLEAR INSIGHTS INTO THE UNDERLYING PHYSICS AND MATHEMATICAL REASONING IDEAL FOR STUDENTS TEACHERS AND MENTORS PREPARING FOR NATIONAL AND INTERNATIONAL COMPETITIONS THIS BOOK IS AN INDISPENSABLE RESOURCE FOR THOSE EAGER TO DELVE DEEPER INTO THE WONDERS OF PHYSICS WHETHER USED FOR INDEPENDENT STUDY OR AS A TEACHING AID THIS VOLUME OFFERS BOTH INTELLECTUAL STIMULATION AND PRACTICAL GUIDANCE

THIS BOOK SHOWS THE APPROACHES TO SOLVING MANY DIFFICULT MATHEMATICAL OLYMPIAD AND OTHER INTERNATIONAL PROBLEMS POSTED AT THE MATHLINKS.RO THE LARGEST MATHEMATICAL WEBPAGE THAT HAS MOST OF THE PROBLEMS USED TO SELECT THE TALENTED STUDENTS OF THE WORLD AT THE TIME OF THIS BOOK'S PUBLICATION THE SOLUTIONS TO MANY OF THESE PROBLEMS ARE NOT YET AVAILABLE THIS BOOK IS NOT ONLY AS MUCH ABOUT METHODS OF SOLVING MATHEMATICAL PROBLEMS AS IT IS ABOUT VARIOUS APPROACHES TO SOLVING THE DIFFICULT PROBLEMS IN GENERAL IT IS A FIRST STEP IN EXAMINING THE CREATIVITY THAT GOES INTO PROBLEM SOLVING THE REAL POINTS OF THE BOOK ARE THE ENUMERATION OF PROBLEM SOLVING STRATEGIES AND THE TRICKS APPLIED TO SOLVE THE PROBLEMS THE APPROACHES IN THE BOOK BUILD UNDERSTANDING AND NOT JUST METHODS IN

SOLVING PROBLEMS THIS BOOK IS A MUST READ FOR MANY MATH STUDENTS AND IS USEFUL FOR MANY TEACHERS AROUND THE WORLD

THE INTERNATIONAL MATHEMATICAL OLYMPIAD IMO IS A COMPETITION FOR HIGH SCHOOL STUDENTS CHINA HAS TAKEN PART IN THE IMO 21 TIMES SINCE 1985 AND HAS WON THE TOP RANKING FOR COUNTRIES 14 TIMES WITH A MULTITUDE OF GOLDS FOR INDIVIDUAL STUDENTS THE SIX STUDENTS CHINA HAS SENT EVERY YEAR WERE SELECTED FROM 20 TO 30 STUDENTS AMONG APPROXIMATELY 130 STUDENTS WHO TOOK PART IN THE ANNUAL CHINA MATHEMATICAL COMPETITION DURING THE WINTER MONTHS THIS VOLUME OF COMPRISES A COLLECTION OF ORIGINAL PROBLEMS WITH SOLUTIONS THAT CHINA USED TO TRAIN THEIR OLYMPIAD TEAM IN THE YEARS FROM 2009 TO 2010 MATHEMATICAL OLYMPIAD PROBLEMS WITH SOLUTIONS FOR THE YEARS 2002 2008 APPEAR IN AN EARLIER VOLUME MATHEMATICAL OLYMPIAD IN CHINA

IN CHINA LOTS OF EXCELLENT MATHS STUDENTS TAKE AN ACTIVE PART IN VARIOUS MATHS CONTESTS AND THE BEST SIX SENIOR HIGH SCHOOL STUDENTS WILL BE SELECTED TO FORM THE IMO NATIONAL TEAM TO COMPETE IN THE INTERNATIONAL MATHEMATICAL OLYMPIAD IN THE PAST TEN YEARS CHINA S IMO TEAM HAS ACHIEVED OUTSTANDING RESULTS THEY WON THE FIRST PLACE ALMOST EVERY YEAR THE AUTHORS OF THIS BOOK ARE COACHES OF THE CHINA NATIONAL TEAM THEY ARE XIONG BIN YAO YIJUN QU ZHENHUA ET AL THOSE WHO TOOK PART IN THE TRANSLATION WORK ARE WANG SHANPING AND CHEN HAORAN THE MATERIALS OF THIS BOOK COME FROM A SERIES OF TWO BOOKS IN CHINESE ON FORWARD TO IMO A COLLECTION OF MATHEMATICAL OLYMPIAD PROBLEMS 2017 2018 IT IS A COLLECTION OF PROBLEMS AND SOLUTIONS OF THE MAJOR MATHEMATICAL COMPETITIONS IN CHINA IT PROVIDES A GLIMPSE OF HOW THE CHINA NATIONAL TEAM IS SELECTED AND FORMED

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INTRODUCTION TO MATH OLYMPIAD PROBLEMS AIMS TO INTRODUCE HIGH SCHOOL STUDENTS TO ALL THE NECESSARY TOPICS THAT FREQUENTLY EMERGE IN INTERNATIONAL MATH OLYMPIAD COMPETITIONS IN ADDITION TO INTRODUCING THE TOPICS THE BOOK WILL ALSO PROVIDE SEVERAL REPETITIVE TYPE GUIDED PROBLEMS TO HELP DEVELOP VITAL TECHNIQUES IN SOLVING PROBLEMS CORRECTLY AND EFFICIENTLY THE TECHNIQUES EMPLOYED IN THE BOOK WILL HELP PREPARE STUDENTS FOR THE TOPICS THEY WILL TYPICALLY FACE IN AN OLYMPIAD STYLE EVENT BUT ALSO FOR FUTURE COLLEGE MATHEMATICS COURSES IN DISCRETE MATHEMATICS GRAPH THEORY DIFFERENTIAL EQUATIONS NUMBER THEORY AND ABSTRACT ALGEBRA FEATURES NUMEROUS PROBLEMS DESIGNED TO EMBED GOOD PRACTICE IN READERS AND BUILD UNDERLYING REASONING ANALYSIS AND PROBLEM SOLVING SKILLS SUITABLE FOR ADVANCED HIGH SCHOOL STUDENTS PREPARING FOR MATH OLYMPIAD COMPETITIONS

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PROBLEMS WITH SOLUTIONS THAT CHINA USED TO TRAIN THEIR OLYMPIAD TEAM IN THE YEARS FROM 2006 TO 2008 MATHEMATICAL OLYMPIAD PROBLEMS WITH SOLUTIONS FOR THE YEARS 2002 2006 APPEAR IN AN EARLIER VOLUME MATHEMATICAL OLYMPIAD IN CHINA

THIS THREE VOLUME COLLECTION PRESENTS A UNIQUE SET OF ORIGINAL PROBLEMS AND SOLUTIONS TAILORED TO ASPIRING ASTRONOMERS AND ASTROPHYSICISTS PARTICIPATING IN OLYMPIADS AND OTHER COMPETITIONS THE PROBLEMS COVER A BROAD SPECTRUM OF RELEVANT TOPICS IN ASTRONOMY AND ASTROPHYSICS CAREFULLY CURATED BY AN AUTHOR WITH EXTENSIVE EXPERIENCE CRAFTING PROBLEMS FOR NATIONAL AND INTERNATIONAL OLYMPIAD COMPETITIONS THESE BOOKS ARE DESIGNED TO INSPIRE CRITICAL THINKING AND SHARPEN PROBLEM SOLVING SKILLS ENRICHING STUDENTS UNDERSTANDING AND ENJOYMENT OF PHYSICS BEYOND THE STANDARD SCHOOL CURRICULA EACH PROBLEM IS ACCOMPANIED BY HELPFUL DIAGRAMS AND DETAILED SOLUTIONS PROVIDING READERS WITH CLEAR INSIGHTS INTO THE UNDERLYING PHYSICS AND MATHEMATICAL REASONING THE FIRST VOLUME ALSO INCLUDES AN EXPLORATION OF 16 KEY THEMES IN ASTRONOMY AND ASTROPHYSICS PROVIDING FOUNDATIONAL TOOLS THAT WILL HELP THE READER FULLY ENGAGE WITH THE PROBLEMS AND SOLUTIONS TO FOLLOW IDEAL FOR STUDENTS TEACHERS AND MENTORS PREPARING FOR NATIONAL AND INTERNATIONAL COMPETITIONS THESE BOOKS ARE AN INDISPENSABLE RESOURCE FOR THOSE EAGER TO DELVE DEEPER INTO THE WONDERS OF THE UNIVERSE WHETHER USED FOR INDEPENDENT STUDY OR AS A TEACHING AID THIS SERIES OFFERS BOTH INTELLECTUAL STIMULATION AND PRACTICAL GUIDANCE

THIS BOOK COMPILES ALL OF THE TEST PROBLEMS AND SOLUTIONS FROM THE 1ST THROUGH THE 8TH ASIAN PHYSICS OLYMPIAD TEST QUESTIONS OF EVERY PAPER CONSIST OF TWO PARTS A THEORY SECTION AND AN EXPERIMENT SECTION BEFORE WHICH MINUTES OF TEAMS AND RESULTS OF EACH COMPETITION ARE INTRODUCED IT IS A RATHER DESIRABLE REFERENCE BOOK FOR BOTH STUDENTS AND TEACHERS OF INTERNATIONAL COMPETITION TRAINING AS WELL AS MIDDLE SCHOOL STUDENT CONTESTANTS

THIS PROBLEM BOOK IS A COLLECTION OF 550 MATH OLYMPIAD PROBLEMS WITH SIX LEVELS OF DIFFICULTY AND IT IS ESPECIALLY AIMED AT SCHOOLCHILDREN BETWEEN 6 AND 11 YEARS OLD SO THAT THE STUDENTS INTERESTED EITHER IN PREPARING FOR A MATH COMPETITION OR SIMPLY IN PRACTICING ENTERTAINING PROBLEMS TO IMPROVE THEIR MATH SKILLS CHALLENGE THEMSELVES TO SOLVE THESE INTERESTING PROBLEMS THIS PROBLEM BOOK IS IDEAL AND WIDELY RECOMMENDED FOR ELEMENTARY SCHOOL CHILDREN IN UPPER GRADES OR EVEN MIDDLE SCHOOL STUDENTS WITH LITTLE OR NO EXPERIENCE IN MATH OLYMPIADS AND WHO REQUIRE COMPREHENSIVE PREPARATION FOR ANY MATH COMPETITION LIKEWISE IT CAN ALSO BE USEFUL FOR TEACHERS PARENTS AND MATH STUDY CIRCLES THUS A TOTAL OF 550 PROBLEMS WITH ANSWERS ARE MADE AVAILABLE TO THE STUDENTS FOR THEIR COMPREHENSIVE AND RIGOROUS PREPARATION WHICH ARE DIVIDED INTO SIX LEVELS OF DIFFICULTY 0 5 WHERE EACH LEVEL OF DIFFICULTY 1 5 INCLUDES PROBLEMS CORRESPONDING TO THEIR RESPECTIVE SCHOOL GRADE WHILE LEVEL 0 INCLUDES A SET OF ADAPTATION PROBLEMS FOR BEGINNERS IN MATH OLYMPIADS THE STUDENTS WITHOUT EXPERIENCE IN MATH OLYMPIADS ARE ENCOURAGED TO START FROM THE LEVEL 0 REGARDLESS OF THEIR CURRENT SCHOOL GRADE IN ADDITION TEN EXAMS ARE INCLUDED FOR EACH LEVEL OF DIFFICULTY WHERE EACH EXAM CONSISTS OF 8 PROBLEMS EXCEPT THOSE OF THE LEVEL 5 WHOSE EXAMS CONSIST OF 15 PROBLEMS TO BE ABLE TO FACE THESE PROBLEMS SUCCESSFULLY NO GREATER KNOWLEDGE IS REQUIRED THAN THAT COVERED IN THE SCHOOL CURRICULUM HOWEVER MANY OF THESE PROBLEMS REQUIRE AN INGENIOUS APPROACH TO BE TACKLED SUCCESSFULLY STUDENTS ARE ENCOURAGED TO KEEP TRYING TO SOLVE EACH PROBLEM AS A PERSONAL CHALLENGE AS MANY TIMES AS NECESSARY AND TO PARENTS WHO CONTINUE TO SUPPORT THEIR CHILDREN IN THEIR DISCIPLINED PREPARATION ONCE AN ANSWER IS OBTAINED IT CAN BE CHECKED AGAINST THE ANSWERS GIVEN AFTER EACH GROUP OF EXAMS

IN CHINA MANY EXCELLENT STUDENTS IN MATHEMATICS TAKE AN ACTIVE PART IN VARIOUS MATHEMATICAL CONTESTS AND EACH YEAR THE BEST SIX SENIOR HIGH SCHOOL STUDENTS ARE SELECTED TO FORM THE IMO NATIONAL TEAM TO COMPETE IN THE INTERNATIONAL MATHEMATICAL OLYMPIAD IN THE PAST TEN YEARS CHINA S IMO TEAM HAS ACHIEVED

OUTSTANDING RESULTS THEY WON FIRST PLACE ALMOST EVERY YEAR THE AUTHORS OF THIS BOOK ARE COACHES OF THE CHINA NATIONAL TEAM THEY ARE XIONG BIN XIAO LIANG YU HONGBING YAO YIJUN QU ZHENHUA LI TING AI YINHUA WANG BIN FU YUNHAO HE YIJIE ZHANG SIHUI WANG XINMAO LIN TIANQI XU DISHENG ET AL THOSE WHO TOOK PART IN THE TRANSLATION WORK ARE CHEN HAORAN AND ZHAO WEI THE MATERIALS OF THIS BOOK COME FROM A SERIES OF TWO BOOKS IN CHINESE ON FORWARD TO IMO A COLLECTION OF MATHEMATICAL OLYMPIAD PROBLEMS 2021 2022 IT IS A COLLECTION OF PROBLEMS AND SOLUTIONS OF THE MAJOR MATHEMATICAL COMPETITIONS IN CHINA IT PROVIDES A GLIMPSE OF HOW THE CHINA NATIONAL TEAM IS SELECTED AND FORMED

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THE INTERNATIONAL MATHEMATICAL OLYMPIAD IMO IS A COMPETITION FOR HIGH SCHOOL STUDENTS CHINA HAS TAKEN PART IN IMO TWENTY TIMES SINCE 1985 AND HAS WON THE TOP RANKING FOR COUNTRIES THIRTEEN TIMES WITH A MULTITUDE OF GOLDS FOR INDIVIDUAL STUDENTS THE 6 STUDENTS CHINA SENT EVERY YEAR WERE SELECTED FROM 20 TO 30 STUDENTS AMONG APPROXIMATELY 130 STUDENTS WHO TAKE PART IN THE CHINA MATHEMATICAL COMPETITION DURING THE WINTER MONTHS THIS VOLUME COMPRISES A COLLECTION OF ORIGINAL PROBLEMS WITH SOLUTIONS THAT CHINA USED TO TRAIN THEIR OLYMPIAD TEAM IN THE YEARS FROM 2003 TO 2006

IN CHINA LOTS OF EXCELLENT MATHS STUDENTS TAKES AN ACTIVE PART IN VARIOUS MATHS CONTESTS AND THE BEST SIX SENIOR HIGH SCHOOL STUDENTS WILL BE SELECTED TO FORM THE IMO NATIONAL TEAM TO COMPETE IN THE INTERNATIONAL MATHEMATICAL OLYMPIAD IN THE PAST TEN YEARS CHINA S IMO TEAM HAS ACHIEVED OUTSTANDING RESULTS THEY HAVE ALWAYS BEEN AMONG THE TOP 3 IN FACT IN THE FIRST PLACE MOST OF THE TIME THE AUTHORS OF THIS BOOK ARE COACHES OF THE CHINA NATIONAL TEAM THEY ARE XIONG BIN YAO YIJUN QU ZHENHUA ET AL THE TRANSLATOR OF THIS BOOK IS CHEN XIAOMIN THE MATERIALS OF THIS BOOK COME FROM A SERIES OF TWO BOOKS IN CHINESE ON FORWARD TO IMO A COLLECTION OF MATHEMATICAL OLYMPIAD PROBLEMS 2015 2016 IT IS A COLLECTION OF PROBLEMS AND SOLUTIONS OF THE MAJOR MATHEMATICAL COMPETITIONS IN CHINA IT PROVIDES A GLIMPSE OF HOW THE CHINA NATIONAL TEAM IS SELECTED AND FORMED

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THE IMO COMPENDIUM IS THE ULTIMATE COLLECTION OF CHALLENGING HIGH SCHOOL LEVEL MATHEMATICS PROBLEMS AND IS AN INVALUABLE RESOURCE NOT ONLY FOR HIGH SCHOOL STUDENTS PREPARING FOR MATHEMATICS COMPETITIONS BUT FOR ANYONE WHO LOVES AND APPRECIATES MATHEMATICS THE INTERNATIONAL MATHEMATICAL OLYMPIAD IMO NEARING ITS 50TH ANNIVERSARY HAS BECOME THE MOST POPULAR AND PRESTIGIOUS COMPETITION FOR HIGH SCHOOL STUDENTS INTERESTED IN MATHEMATICS ONLY SIX STUDENTS FROM EACH PARTICIPATING COUNTRY ARE GIVEN THE HONOR OF PARTICIPATING IN THIS COMPETITION EVERY YEAR THE IMO REPRESENTS NOT ONLY A GREAT OPPORTUNITY TO TACKLE INTERESTING AND CHALLENGING MATHEMATICS PROBLEMS IT ALSO OFFERS A WAY FOR HIGH SCHOOL STUDENTS TO MEASURE UP WITH STUDENTS FROM THE REST OF THE WORLD UNTIL THE FIRST EDITION OF THIS BOOK APPEARING IN 2006 IT HAS BEEN ALMOST IMPOSSIBLE TO OBTAIN A COMPLETE COLLECTION OF THE PROBLEMS PROPOSED AT THE IMO IN BOOK FORM THE IMO COMPENDIUM IS THE RESULT OF A COLLABORATION BETWEEN FOUR FORMER IMO PARTICIPANTS FROM YUGOSLAVIA NOW SERBIA AND MONTENEGRO TO RESCUE THESE PROBLEMS FROM OLD AND SCATTERED MANUSCRIPTS AND PRODUCE THE ULTIMATE SOURCE OF IMO PRACTICE PROBLEMS THIS BOOK ATTEMPTS TO GATHER ALL THE PROBLEMS AND SOLUTIONS APPEARING ON THE IMO THROUGH 2009 THIS SECOND EDITION CONTAINS 143 NEW PROBLEMS PICKING UP WHERE THE 1959 2004 EDITION HAS LEFT OFF

THANK YOU VERY MUCH FOR DOWNLOADING **MATHEMATICAL OLYMPIAD PROBLEMS AND SOLUTIONS**. AS YOU MAY KNOW, PEOPLE HAVE LOOK NUMEROUS TIMES FOR THEIR FAVORITE BOOKS LIKE THIS MATHEMATICAL OLYMPIAD PROBLEMS AND SOLUTIONS, BUT END UP IN MALICIOUS DOWNLOADS. RATHER THAN READING A GOOD BOOK WITH A CUP OF TEA IN THE AFTERNOON, INSTEAD THEY JUGGLED WITH SOME INFECTIOUS VIRUS INSIDE THEIR DESKTOP COMPUTER. MATHEMATICAL OLYMPIAD PROBLEMS AND SOLUTIONS IS AVAILABLE IN OUR BOOK COLLECTION AN ONLINE ACCESS TO IT IS SET AS PUBLIC SO YOU CAN DOWNLOAD IT INSTANTLY. OUR DIGITAL LIBRARY SPANS IN MULTIPLE COUNTRIES, ALLOWING YOU TO GET

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