

AIME Problems 2011

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– March 16th

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- 1** Jar A contains four liters of a solution that is 45% acid. Jar B contains five liters of a solution that is 48% acid. Jar C contains one liter of a solution that is $k\%$ acid. From jar C, $\frac{m}{n}$ liters of the solution is added to jar A, and the remainder of the solution in jar C is added to jar B. At the end, both jar A and jar B contain solutions that are 50% acid. Given that m and n are relatively prime positive integers, find $k + m + n$.
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- 2** In rectangle $ABCD$, $AB = 12$ and $BC = 10$. Points E and F lie inside rectangle $ABCD$ so that $BE = 9$, $DF = 8$, $\overline{BE} \parallel \overline{DF}$, $\overline{EF} \parallel \overline{AB}$, and line BE intersects segment \overline{AD} . The length EF can be expressed in the form $m\sqrt{n} - p$, where m , n , and p are positive integers and n is not divisible by the square of any prime. Find $m + n + p$.
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- 3** Let L be the line with slope $\frac{3}{13}$ that contains the point $A = (24, -1)$, and let M be the line perpendicular to line L that contains the point $B = (5, 6)$. The original coordinate axes are erased, and line L is made the x -axis, and line M the y -axis. In the new coordinate system, point A is on the positive x -axis, and point B is on the positive y -axis. The point P with coordinates $(-14, 27)$ in the original system has coordinates (α, β) in the new coordinate system. Find $\alpha + \beta$.
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- 4** In triangle ABC , $AB = 125$, $AC = 117$, and $BC = 120$. The angle bisector of angle A intersects \overline{BC} at point L , and the angle bisector of angle B intersects \overline{AC} at point K . Let M and N be the feet of the perpendiculars from C to \overline{BK} and \overline{AL} , respectively. Find MN .
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- 5** The vertices of a regular nonagon (9-sided polygon) are to be labeled with the digits 1 through 9 in such a way that the sum of the numbers on every three consecutive vertices is a multiple of 3. Two acceptable arrangements are considered to be indistinguishable if one can be obtained from the other by rotating the nonagon in the plane. Find the number of distinguishable acceptable arrangements.
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- 6** Suppose that a parabola has vertex $(\frac{1}{3}, -\frac{2}{3})$, and equation $y = ax^2 + bx + c$, where $a > 0$ and $a + b + c$ is an integer. The minimum possible value of a can be written as $\frac{p}{q}$, where p and q are relatively prime positive integers. Find $p + q$.
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- 7** Find the number of positive integers m for which there exist nonnegative integers $x_0, x_1, \dots, x_{2011}$

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ML Morrison



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A Gentle Introduction to the American Invitational Mathematics Exam Scott A. Annin, 2015-11-16 This book is a celebration of mathematical problem solving at the level of the high school American Invitational Mathematics Examination. There is no other book on the market focused on the AIME. It is intended in part as a resource for comprehensive study and practice for the AIME competition for students, teachers, and mentors. After all, serious AIME contenders and competitors should seek a lot of practice in order to succeed. However, this book is also intended for anyone who enjoys solving problems as a recreational pursuit. The AIME contains many problems that have the power to foster enthusiasm for mathematics; the problems are fun, engaging, and addictive. The problems found within these pages can be used by teachers who wish to challenge their students, and they can be used to foster a community of lovers of mathematical problem solving. There are more than 250 fully solved problems in the book, containing examples from AIME competitions of the 1980s, 1990s, 2000s, and 2010s. In some cases, multiple solutions are presented to highlight variable approaches. To help problem solvers with the exercises, the author provides two levels of hints to each exercise in the book: one to help stuck starters get an idea how to begin, and another to provide more guidance in navigating an approach to the solution.

Annual Reports on NMR Spectroscopy, 2018-02-24 *Annual Reports on NMR Spectroscopy* Volume 94 provides a thorough accounting of progress in nuclear magnetic resonance (NMR) spectroscopy and its applications in all branches of science in which precise structural determination is required and in which the nature of interactions and reactions in solution is being studied. Updates in this new release include sections on ^{31}P NMR Studies of Lateral Diffusion, Progress in the Accurate Determination of ^1H – ^1H Distances by NMR, Procedures, Recent Solid State NMR Studies of Hydrated Lipid Membranes, and Recent Advances in ^{17}O NMR Studies. This book has established itself as a premier means for both specialists and non-specialists who are looking to become familiar with new techniques and applications pertaining to NMR spectroscopy. Serves as the premier resource for learning the new techniques and applications of NMR spectroscopy. Provides a key reference for chemists and physicists using NMR spectroscopy to study the structure and dynamics of molecules. Covers all aspects of molecular science, including MRI (Magnetic Resonance Imaging).

Contrast Agents for MRI Valérie C. Pierre, Matthew J. Allen, 2017-11-09 As a practical reference guide for designing and performing experiments, this book focuses on the five most common classes of contrast agents for MRI: gadolinium complexes, chemical exchange saturation transfer agents, iron oxide nanoparticles, manganese complexes, and fluorine contrast agents. It describes how to characterize and evaluate them, and for each class, a description of the theory behind their mechanisms is discussed briefly to orient the new reader. Detailed subchapters discuss the different physical chemistry methods used to characterize them in terms of their efficacy, safety, and in vivo behavior. Important consideration is also given to the different physical properties that affect the performance of the contrast agents. The editors and contributors are at the forefront of research in the field of MRI contrast agents, and this unique cutting edge

book is a timely addition to the literature in this area **SME Mineral Processing and Extractive Metallurgy Handbook** Courtney A. Young,2019-02-01 This landmark publication distills the body of knowledge that characterizes mineral processing and extractive metallurgy as disciplinary fields It will inspire and inform current and future generations of minerals and metallurgy professionals Mineral processing and extractive metallurgy are atypical disciplines requiring a combination of knowledge experience and art Investing in this trove of valuable information is a must for all those involved in the industry students engineers mill managers and operators More than 192 internationally recognized experts have contributed to the handbook s 128 thought provoking chapters that examine nearly every aspect of mineral processing and extractive metallurgy This inclusive reference addresses the magnitude of traditional industry topics and also addresses the new technologies and important cultural and social issues that are important today Contents Mineral Characterization and Analysis Management and Reporting Comminution Classification and Washing Transport and Storage Physical Separations Flotation Solid and Liquid Separation Disposal Hydrometallurgy Pyrometallurgy Processing of Selected Metals Minerals and Materials Ullmann's Energy Wiley-VCH,2017-06-01 This three volume handbook contains a wealth of information on energy sources energy generation and storage fossil and renewable fuels as well as the associated processing technology Fossil as well as renewable fuels nuclear technology power generation and storage technologies are treated side by side providing a unique overview of the entire global energy industry The result is an in depth survey of industrial scale energy technology Your personal ULLMANN S A carefully selected best of compilation of topical articles brings the vast knowledge of the Ullmann s encyclopedia to the desks of energy and process engineers Chemical and physical characteristics production processes and production figures main applications toxicology and safety information are all found here in one single resource New or updated articles include classical topics such as coal technologies oil and gas as well as cutting edge technologies like biogas thermoelectricity and solar technology 3 Volumes Fundamentals of Gas Shale Reservoirs Reza Rezaee,2015-07-01 Provides comprehensive information about the key exploration development and optimization concepts required for gas shale reservoirs Includes statistics about gas shale resources and countries that have shale gas potential Addresses the challenges that oil and gas industries may confront for gas shale reservoir exploration and development Introduces petrophysical analysis rock physics geomechanics and passive seismic methods for gas shale plays Details shale gas environmental issues and challenges economic consideration for gas shale reservoirs Includes case studies of major producing gas shale formations **Transactions of the American Institute of Mining, Metallurgical, and Petroleum Engineers, Incorporated** American Institute of Mining, Metallurgical, and Petroleum Engineers,1980 Some vols 1920 1949 contain collections of papers according to subject Transactions American Institute of Mining, Metallurgical, and Petroleum Engineers,1969 Some vols 1920 1949 contain collections of papers according to subject Metals Abstracts ,1995 *Materials Science at University of Miskolc* András Roósz,Kinga Tomolya,2013-03-26 Special topic volume with

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Treatise on Process Metallurgy, Volume 2B Seshadri Seetharaman,Alexander McLean,Roderick Guthrie,Sridhar Seetharaman,H. Y. Sohn,2025-07-01 *Treatise on Process Metallurgy Volume 2B Unit Processes* presents various unit processes with an emphasis on mineral processing hydrometallurgy and electrochemical materials and energy processes The book highlights the roles of these processes in beneficiation rare earth extraction utilization of lean resources coal extraction and biofuels reflecting the shift toward green and electrochemical processes Basic knowledge of thermodynamics and kinetics is provided for better understanding of metallurgical processes The first section of the book covers mineral processing providing insight on comminution separation processes dewatering and tailings disposal The second section focuses on hydrometallurgy discussing leaching separation purification metal recovery and battery materials and the book concludes with a section studying electrochemical material and energy featuring coverage of molten oxide electrolysis molten carbonate fuel cells various sensors and ionic liquids Each section also includes various case studies demonstrating the use of the concepts in real world settings Covers mineral processing electrochemical materials and hydrometallurgy and their roles in beneficiation rare earth extraction utilization of lean resources coal extraction and biofuels Provides basic knowledge on thermodynamics and kinetics needed for understanding the principles of metallurgical processes Includes a section on electrochemical materials and energy processes covering molten salts electrolysis fuel cells and nuclear molten salt reactors Features insight into the entire process chain unit processes that are generally overlooked and unit processes that combine hydro electro and pyro processes in an optimal way THERMEC 2013 B. Mishra,M. Ionescu,T. Chandra,2014-05-23 Selected peer reviewed papers from the 8th International Conference on PROCESSING MANUFACTURING OF ADVANCED MATERIALS Processing Fabrication Properties Applications December 2 6 2013 Las Vegas USA The Journal of the Iron and Steel Institute Iron and Steel Institute,1969 Includes sect A survey of literature on the manufacture and properties of iron and steel and kindred subjects title varies Advances in Metallurgical and Mining Engineering Hong Xi Zhu,Lin Jiang Wang,2011-11-22 Selected peer reviewed papers from the International Conference on Chemical Material and Metallurgical Engineering ICCMME 2011 December 23 25 2011 Beihai China *Transactions Metallurgical Society of AIME.*,1917 Technologies and Properties of Modern Utility Materials XXI Jacek Mendala,Paweł Gradoń,2013-12-13 Selected peer reviewed papers from the XXI Conference on Technologies and Properties of Modern Utility Materials TPMUM 2013 May 17 2013 Katowice Poland **Textures of Materials - ICOTOM 16** Asim Tewari,Satyam Suwas,Dinesh Srivastava,Indradev Samajdar,Arunansu Haldar,2011-12-06 Selected peer reviewed papers

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