

Sk Goyal Calculus

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Numerical Chemistry PRATESH BAHADUR 1994

Skills in Mathematics - Differential Calculus for JEE Main and Advanced Amit M Agarwal 2021-04-19 1. Skill in Mathematics' series is prepared for JEE Main and Advanced papers 2. It is a highly recommended textbook to develop a strong grounding in Differential Calculus 3. The book covers the entire syllabus into 8 chapters 4. Each chapter includes a wide range of questions that are asked in the examinations Good foundational grip is required in the Differential Calculus, while you are preparing for JEE Mains & Advanced or any other engineering. Bringing up the series "Skills in Mathematics for JEE Main & Advanced for Differential Calculus" that is carefully revised with the sessionwise theory and exercise; to help candidates to learn & tackle the mathematical problems. The book has 8 Chapters covering the whole syllabus for the JEE Mains and Advanced as prescribed. Each chapter is divided into sessions giving complete clarity to concepts. Apart from sessionwise theory, JEE Type examples and Chapter Exercise contain huge amount of questions that are provided in every chapter under Practice Part. Prepared under great expertise, it is a highly recommended textbook to develop a strong grounding in Algebra to perform best in JEE and various engineering entrances. TOC: Essential Mathematical Tools, Differentiation, Functions, Graphical Transformations, Limits, Continuity and Differentiability, dy/dx As a Rate Measurer & Tangents, Normals, Monotonicity, Maxima and Minima.

Mathematics and Calculus with Applications Margaret L. Lial 1985

Advanced Problems in Mathematics for JEE Manan Khurma Advanced Mathematics for the JEE is targeted towards students taking the JEE Mains, especially the JEE Advanced Mathematics paper. It covers all the prescribed topics and explains the conceptual foundations of a topic and makes clear its applications in solving the problems. All the chapters in the book contain theory, examples and solved problems. From chapter highlights to important facts and formulae, the theoretical portion is well-supported by numerous illustrative examples and unsolved problems of both objective and subjective types.

Master Resource Book in Mathematics for JEE Main 2022 Prafful K Agarwal

2021-08-26 1. The 'Master Resource book' gives complete coverage of Mathematics
2. Questions are specially prepared for AIEEE & JEE main exams
3. The book is divided into 2 parts; consisting 35 chapters from JEE Mains
4. Each chapter is accessorized with 2 Level Exercises and Exam Questions
5. Includes highly useful JEE Main Solved papers
Comprehensively covering all topics of JEE Main Syllabus, here's presenting the revised edition of "Master Resource Book for JEE Main Mathematics" that is comprised for a systematic mastery of a subject with paramount importance to a problem solving. Sequenced as per the syllabus of class 11th & 12th, this book has been divided into two parts accordingly. Each chapter contains essential theoretical concepts along with sufficient number of solved paper examples and problems for practice. To get the insight of the difficulty level of the paper, every chapter is provided with previous years' question of AIEEE & JEE. Single Correct Answer Types and Numerical Value Questions cover all types of questions. TOC PART I - Class 11th: Sets, Fundamentals and Relations and Functions, Sequences and Series, Complex Numbers, Quadratic Equations, Permutation and Combinations, Mathematical Inductions, Binomial Theorem and its Applications, Trigonometrical Function and Equations, Properties of Triangles, Heights and Distances, Cartesian Coordinate system, Straight Lines, Circles, Parabola, Ellipse, Hyperbola, Introduction to 3 Dimensional Geometry, Limits and Derivatives, Mathematical Reasoning, Statistics, Fundamentals of Probability, Part II: Class 12th – Matrices, Determinants, Relations and Functions, Continuity and Differentiability, Differentiation, Applications of Derivations, Indefinite Integration, Area Bound by Curves, Differential Equations, Vector Algebra, Three Dimensional Geometry, Advanced Probability.

Higher Algebra Henry Sinclair Hall 1891

Plane Trigonometry Sidney Luxton Loney 1893

Comprehensive Chemistry N.K. Verma 2011-07

Fundamentals of Mathematical Statistics S.C. Gupta 2020-09-10 Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally

written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Knowledge updating is a never-ending process and so should be the revision of an effective textbook. The book originally written fifty years ago has, during the intervening period, been revised and reprinted several times. The authors have, however, been thinking, for the last few years that the book needed not only a thorough revision but rather a substantial rewriting. They now take great pleasure in presenting to the readers the twelfth, thoroughly revised and enlarged, Golden Jubilee edition of the book. The subject-matter in the entire book has been re-written in the light of numerous criticisms and suggestions received from the users of the earlier editions in India and abroad. The basis of this revision has been the emergence of new literature on the subject, the constructive feedback from students and teaching fraternity, as well as those changes that have been made in the syllabi and/or the pattern of examination papers of numerous universities. Some prominent additions are given below: 1. Variance of Degenerate Random Variable 2. Approximate Expression for Expectation and Variance 3. Lyapounov's Inequality 4. Holder's Inequality 5. Minkowski's Inequality 6. Double Expectation Rule or Double-E Rule and many others

Problems In General Physics I.E. Irodov 2008-12-01

Mathematics for the Million Lancelot Thomas Hogben 2017-04 "Taking only a modicum of knowledge for granted, Lancelot Hogben leads readers of this famous book through the whole course from simple arithmetic to calculus. His illuminating explanation is addressed to the person who wants to understand the place of mathematics in modern civilization but who has been intimidated by its supposed difficulty. Mathematics is the language of size, shape, and order a language Hogben shows one can both master and enjoy"--Page 4 of cover.

Skills In Mathematics Integral Calculus Amit M. Agarwal 2008

New Pattern Iit Jee Physics D C Pandey

Advanced Calculus Patrick Fitzpatrick 2009 "Advanced Calculus is intended as a text for courses that furnish the backbone of the student's undergraduate education in mathematical analysis. The goal is to rigorously present the fundamental concepts within the context of illuminating examples and stimulating exercises. This book is self-contained and starts with the creation

of basic tools using the completeness axiom. The continuity, differentiability, integrability, and power series representation properties of functions of a single variable are established. The next few chapters describe the topological and metric properties of Euclidean space. These are the basis of a rigorous treatment of differential calculus (including the Implicit Function Theorem and Lagrange Multipliers) for mappings between Euclidean spaces and integration for functions of several real variables."--pub. desc.

Algebra Umesh Gupta 2018-12-23 This book is specially designed for those students who are targeting JEE Main, JEE Advanced and Boards. This book is the first part of the 5 Series of books for JEE Main. It is compiled very systematically which gives students clarity of concepts and its applications. Undoubtedly, this book is greatly useful for JEE Advanced as well, it is the foundation for JEE Advanced. The book consists of theoretical & practical explanations of all the concepts involved in the chapter. Each article followed by a ladder of illustration. At the end of the theory part, there are miscellaneous solved examples which involve the application of multiple concepts of the chapter. Students are advised to go through all these solved examples in order to develop better understanding of the chapter and to have better grasping level in the class. As you have gone through the theory part that consists of given fundamental principles, definitions, concepts involved and solved problems. After going through theory part, it becomes necessary to solve the unsolved problems based on the concepts given. To solve this purpose, we are providing level part that comprises of various levels based on the theory. By solving various kinds of problems, you can check your grasp on the topic and can determine whether you have been able to find optimum depth in relevant topic or not. Students are advised to solve the questions of exercises (Levels # 1, 2, 3, 4) in the same sequence or as directed by the teachers, religiously and very carefully. TOPICS IN SERIES -1 QUADRATIC EQUATION PROGRESSIONS BINOMIAL THEOREM PERMUTATIONS & COMBINATIONS SETS & RELATIONS MEASURES OF CENTRAL TENDENCY AND DISPERSION

Objective Chemistry Dr. R.K. Gupta The Book Thoroughly The Following: Physical Chemistry With Detailed Concepts And Numerical Problems. Organic Chemistry With More Chemical Equations. Inorganic Chemistry With Theory And Examples. In Addition To A Well Explained Theory The Book Includes Well Categorized Classified And Sub-Classified Questions On The Basis Of Latest Trends Of Examination Papers. Salient Features As Per The Syllabus Of Engineering And Medical Entrance Examinations Previous Years Solved Papers Every Unit Contains (I) Main Highlights; (Ii) Multiple Choice Questions; (Iii) True And False Statements; (Iv) Hints And Solutions.

New Pattern Iit Jee Maths Sk Goel

Finite Mathematics and Calculus with Applications Margaret L. Lial 1989

Differential Calculus Shanti Narayan 2005-03 This textbook commences with a brief outline of development of real numbers, their expression as infinite

decimals and their representation by points along a line. While the first part of the textbook is analytical, the latter part deals with the geometrical applications of the subject. Numerous examples and exercises have been provided to support student's understanding. This textbook has been designed to meet the requirements of undergraduate students of BA and BSc courses.

India's Policy Milieu S. K. Goyal 2014-09-01 This collection of articles was written by the eminent economist Professor S. K. Goyal under an era of different political-economic context of planning. It is of continuing relevance to the ongoing debate on issues including: the vastly increased role of foreign capital, restructuring of public sector, financial sector transformation, crony capitalism, endemic trade imbalances, and functioning of new regulatory bodies that characterize India's transition to the new economic policy regime. This book helps explain the development process of the Indian economy.

Advanced Problems in Mathematics: Preparing for University Stephen Siklos 2016-01-25 This book is intended to help candidates prepare for entrance examinations in mathematics and scientific subjects, including STEP (Sixth Term Examination Paper). STEP is an examination used by Cambridge colleges as the basis for conditional offers. They are also used by Warwick University, and many other mathematics departments recommend that their applicants practice on the past papers even if they do not take the examination. Advanced Problems in Mathematics is recommended as preparation for any undergraduate mathematics course, even for students who do not plan to take the Sixth Term Examination Paper. The questions analysed in this book are all based on recent STEP questions selected to address the syllabus for Papers I and II, which is the A-level core (i.e. C1 to C4) with a few additions. Each question is followed by a comment and a full solution. The comments direct the reader's attention to key points and put the question in its true mathematical context. The solutions point students to the methodology required to address advanced mathematical problems critically and independently. This book is a must read for any student wishing to apply to scientific subjects at university level and for anybody interested in advanced mathematics.

A Textbook of Algebra Shah, S.K. & Garg, S.C. The book caters to the 1st semester students of BSc (Hons) Mathematics of Indian universities. It has been written strictly in accordance with the CBCS syllabus of the UGC. The book teaches the concepts and techniques of basic algebra with a focus on explaining definitions and theorems, and creating proofs. The theory is supported by numerous examples and plenty of worked-out problems. Its strict logical organization has been designed to help the reader to develop confidence in the subject. By introducing various interesting applications of algebra the book also aims at creating a broad and solid foundation for the study of advanced mathematics. The contents covered in the book are equivalence relations, functions, cardinality, congruence-modulo, mathematical induction and De Moivre's theorem. Further, some basic topics of linear algebra like vectors and matrices, linear equations, Gauss elimination, subspace and its dimension, rank-nullity theorem, linear transformations and their relations to matrices,

and eigenvalues and eigenvectors are also covered. Since practice makes the man perfect, there are a good number of problems that stretch the thinking power of the learner. The problems are graded from easy to those involving higher order thinking. By its virtue the book inculcates that mathematical maturity which students need in their current and future courses to grow up into mathematicians of substance.

The Elements of STATISTICS & DYNAMICS Part-I Statics SL Loney 2019-04-15 The Classic Text Series is the only of its kind selection of classic pieces of work that started off as bestseller and continues to be the bestseller even today. These classic texts have been designed so as to work as elementary textbooks which play a crucial role in building the concepts from scratch as in-depth knowledge of concepts is necessary for students preparing for various entrance examinations. This book on Elements of Statics and Dynamics Part 1 (Statics) deals with graphically represented concepts of Statics. The present book has been divided into 18 chapters namely Introduction, Composition & Resolution of Forces, Parallel Forces, Moments, Couples, Equilibrium of a Rigid Body Acted on by Three Forces in a Plane, General Conditions of Equilibrium of a Body Acted on by Forces in One Plane, Centre of Gravity, Work, Machines, Friction, Miscellaneous, Some Additional Propositions and Vectors. Each chapter in the book contains relevant theoretical content for comprehensive understanding of the concepts along with number of solved examples with detailed explanations. At the end of each chapter, unsolved practice exercises have been provided to help aspirants revise the concepts discussed in the chapter. Answers and solutions to the practice exercises have been covered at the end of the book along with attachment containing terms used in the chapters. As the book covers all the elements of Statics (Part 1), hope this book covering Elements of Statics from the Classic Text Series will help the readers get in-depth insight into the various elements of Statics.

Skill in Mathematics - Algebra for JEE Main and Advanced Dr. S K Goyal 2021-04-19 1. 'Skill in Mathematics' series is prepared for JEE Main and Advanced papers 2. It is a highly recommended textbook to develop a strong grounding in Algebra 3. The book covers the entire syllabus into 11 chapters 4. Each chapter includes a wide range of questions that are asked in the examinations Good foundational grip is required in the Algebraic Methods, while you are preparing for JEE Mains & Advanced or any other engineering. Bringing up the series "Skills in Mathematics for JEE Main & Advanced for Algebra" that is carefully revised with the sessionwise theory and exercise; to help candidates to learn & tackle the mathematical problems. The book has 11 Chapters covering the whole syllabus for the JEE Mains and Advanced as prescribed. Each chapter is divided into sessions giving complete clarity to concepts. Apart from sessionwise theory, JEE Type examples and Chapter Exercise contain a huge amount of questions that are provided in every chapter under Practice Part. Prepared under great expertise, it is a highly recommended textbook to develop a strong grounding in Algebra to perform best in JEE and various engineering entrances. TOC: Complex Numbers, Theory of Equations, Sequences and Series, Logarithms and Their Properties, Permutations and

Combinations, Binomial Theorems, Determinants, Matrices, Probability, Mathematical Inductions, Sets, Relations and Functions.

Skills in Mathematics - Coordinate Geometry for JEE Main and Advanced Dr. S K Goyal 2021-04-19 1. 'Skill in Mathematics' series is prepared for JEE Main and Advanced papers 2. It is a highly recommended textbook to develop a strong grounding in Coordinate Geometry 3. The book covers the entire syllabus into 7 chapters 4. Each chapter includes a wide range of questions that are asked in the examinations Good foundational grip is required in the Coordinate Geometry, while you are preparing for JEE Mains & Advanced or any other engineering. Bringing up the series "Skills in Mathematics for JEE Main & Advanced for Coordinate Geometry" that is carefully revised with the sessionwise theory and exercise; to help candidates to learn & tackle the mathematical problems. The book has 7 Chapters covering the whole syllabus for the JEE Mains and Advanced as prescribed. Each chapter is divided into sessions giving complete clarity to concepts. Apart from sessionwise theory, JEE Type examples and Chapter Exercise contain huge amount of questions that are provided in every chapter under Practice Part. Prepared under great expertise, it is a highly recommended textbook to develop a strong grounding in Algebra to perform best in JEE and various engineering entrances. TOC: Coordinate Systems and Coordinates, The Straight Lines, Pair of Straight Lines, Circle, Parabola, Ellipse, Hyperbola.

Complete Mathematics Tmh 2007

Objective Mathematics Vol 1 For Engineering Entrances 2022 Amit M Agarwal 2021-04-20 1. "Complete Study Pack for Engineering Entrances" series provides Objective Study Guides 2. Objective Mathematics Volume-1 is prepared in accordance with NCERT Class 11th syllabus 3. Guide is divided into 21 chapter 4. complete text materials, Practice Exercises and workbook exercises with each theory 5. Includes more than 5000 MCQs, collection of Previous Years' Solved Papers of JEE Main and Advanced, BITSAT, Kerala CEE, KCET, AP & TS EAMCET, VIT, and MHT CET. Our Objective series for Engineering Entrances has been designed in accordance with the latest 2021-2022 NCERT syllabus; Objective Mathematics Volume – 1 is divided into 21 chapters giving Complete Text Material along with Practice Exercises and Workbook exercises. Chapter Theories are coupled with well illustrated examples helping students to learn the basics of Mathematics. Housed with more than 5000 MCQs and brilliant collection of Previous Years' Solved Papers of JEE Main and Advanced BITSAT, Kerala CEE, KCET, AP & TS EAMCET, VIT, and MHT CET, which is the most defining part of this book. Delivering the invaluable pool of study resources for different engineering exams at one place, this is no doubt, an excellent book to maximize your chances to get qualified at engineering entrances. TOC Sets, Fundamentals of Relation and Function, Sequence and Series, Complex Numbers, Inequalities and Quadratic Equation, Permutation and Combination, Mathematical Induction, Binomial Theorem, Trigonometric Functions and Equations, Properties of Triangles, Heights and Distances, Cartesian System of Rectangular Coordinates, Straight and Pair of Straight Lines, Circle, Parabola, Ellipse, Hyperbola, Introduction to Three Dimensional (3D) Geometry, Introduction to Limits &

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Derivatives, Mathematical Reasoning, Statistics, Fundamental of Probability, JEE Advanced Solved Paper 2015, JEE Main & Advanced Solved Papers 2016, JEE Main & Advanced/BITSAT/Kerala CEE/ KCET/AP & TS EAMCET/VIT/MHT CET Solved Papers 2017, JEE Main & Advanced/BITSAT/Kerala CEE/ KCET/AP & TS EAMCET/VIT/MHT CET Solved Papers 2018, JEE Main & Advanced/BITSAT/Kerala CEE/ KCET/AP & TS EAMCET/VIT/MHT CET Solved Papers 2019-20.

The SAGE Handbook of Health Psychology Stephen Sutton 2004-12-08 This volume provides readers with a one-stop, authoritative guide to the major themes and debates in health psychology, both past and present.

Vector Analysis Ghosh & Maity 2013 In this book the notion of a Vector has been approached from two points of view - Geometric and Algebraic. The relationship between the two has also been established.

ISC Mathematics book 1 for Class- 11 O P MALHOTRA S Chand's ISC Mathematics is structured according to the latest syllabus as per the new CISCE(Council for the Indian School Certificate Examinations), New Delhi, for ISC students taking classes XI & XII examinations.

200 Puzzling Physics Problems P. Gnädig 2001-08-13 This book will strengthen a student's grasp of the laws of physics by applying them to practical situations, and problems that yield more easily to intuitive insight than brute-force methods and complex mathematics. These intriguing problems, chosen almost exclusively from classical (non-quantum) physics, are posed in accessible non-technical language requiring the student to select the right framework in which to analyse the situation and decide which branches of physics are involved. The level of sophistication needed to tackle most of the two hundred problems is that of the exceptional school student, the good undergraduate, or competent graduate student. The book will be valuable to undergraduates preparing for 'general physics' papers. It is hoped that even some physics professors will find the more difficult questions challenging. By contrast, mathematical demands are minimal, and do not go beyond elementary calculus. This intriguing book of physics problems should prove instructive, challenging and fun.

HIGHER ALGEBRA Hall & Knight 2019-04-15 The Classic Texts Series is the only of its kind selection of classic pieces of work that started off as bestseller and continues to be the bestseller even today. These classic texts have been designed so as to work as elementary textbooks which play a crucial role in building the concepts from scratch as in-depth knowledge of concepts is necessary for students preparing for various entrance exams. The present book on Higher Algebra presents all the elements of Higher Algebra in a single book meant to work as textbook for the students beginning their preparation of the varied aspects covered under Higher Algebra. The present book has been divided into 35 chapters namely Ratio, Proportion, Variation, Arithmetical Progression, Geometrical Progression, Harmonical Progression Theorems Connected with The Progression, Scales of Notation, Surds & Imaginary Quantities, The Theory of

Quadratic Equations, Miscellaneous Equations, Permutations & Combinations, Mathematical Induction, Binomial Theorem Positive Integral Index, Binomial Theorem, Any Index, Multinomial Theorem, Logarithms, Exponential & Logarithmic Series, Interest & Annuities, Inequalities, Limiting Values & Vanishing Fractions, Convergency & Divergency of Series, Undetermined Coefficients, Partial Fractions, Recurring Series, Continued Fractions, Recurring Series, Continued Fractions, Indeterminate Equations of the First Degree, Recurring Continued Fractions, Indeterminate Equations of the Second Degree, Summation of Series, Theory of Numbers, The General Theory of Continued Fractions, Probability, Determinants, Miscellaneous Theorems & Examples and Theory of Equations, each subdivided into number of topics. The first few chapters in the book have been devoted to a fuller discussion of Ratio, Proportions, Variation and the Progressions. Both the theoretical text as well as examples have been treated minutely which will help in better understanding of the concepts covered in the book. Theoretical explanation of the concepts in points has been provided at the beginning of each chapter. At the end of each chapter, unsolved practice exercises have been provided to help aspirants revise the concepts discussed in the chapter. At the end of chapterwise study, miscellaneous examples have also been given along with answers and solutions to the unsolved examples covered in each chapter. All the relevant theorems covered under the syllabi of Higher Algebra have also been covered in the detail in this book. As the book covers the whole syllabi of Higher Algebra in detail along with ample number of solved examples, it for sure will help the students perfect the varied concepts covered under the Higher Algebra section.

Higher Algebra Barnard S 2017-08-24

Essential Calculus Margaret L. Lial 1980

Integral & Differential Calculus Arvind P Vidhyarthi

Linear Integral Equations Ram P. Kanwal 2013-11-27 This second edition of Linear Integral Equations continues the emphasis that the first edition placed on applications. Indeed, many more examples have been added throughout the text. Significant new material has been added in Chapters 6 and 8. For instance, in Chapter 8 we have included the solutions of the Cauchy type integral equations on the real line. Also, there is a section on integral equations with a logarithmic kernel. The bibliography at the end of the book has been extended and brought up to date. I wish to thank Professor B.K. Sachdeva who has checked the revised manuscript and has suggested many improvements. Last but not least, I am grateful to the editor and staff of Birkhauser for inviting me to prepare this new edition and for their support in preparing it for publication.

Ram P. Kanwal
 CHAYFERL
 Introduction 1.1. Definition
 An integral equation is an equation in which an unknown function appears under one or more integral signs. Naturally, in such an equation there can occur other terms as well. For example, for $a \leq s \leq b$; $a \leq t \leq b$, the equations (1.1.1)
 $f(s) = \int_a^b K(s, t)g(t)dt$, (1.1.1)
 $f(s) = \int_a^b K(s, t)g(t)dt$, (1.1.2)
 $f(s) = \int_a^b K(s, t)[g(t) + f(t)]dt$, (1.1.3)
 where the function $g(s)$ is the unknown function and all the

other functions are known, are integral equations. These functions may be complex-valued functions of the real variables s and t .

B.Sc. Practical Physics CL Arora 2001 B.Sc. Practical Physics

Educative JEE Mathematics K.D. Joshi 2004-03

The Elements of Coordinate Geometry Sidney Luxton Loney 2018-02 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

4901102Coordinate Geo.(Loney)-1 2018