Ebook free Work physics problems with solutions and answers (2023)

problem solving is one of the most valuable skills for managers supervisors and executives in the solution path tasos sioukas combines practical techniques and tools with spirituality life skills and an emphasis on relationships and teams he presents proven methods that enable readers to take action and create solutions unlike other books on the subject that leave readers thirsty for inspiration sioukas inspires readers to capitalize on positive thinking and their own creative abilities he assists readers to understand themselves and others so that they can build effective problem solving teams and enables them to use facilitation a set of techniques that help team members maximize their time together the solution path supports readers in taking action on a specific challenge it provides a step by step path to solutions which begins by visualizing ideal outcomes and using creativity exercises to generate as many ideas as possible continues with synthesizing the ideas into the best workable solution and ends with designing an action plan to make the solution a reality the solution path maximizes the collective genius of teams while achieving buy in and commitment for lasting organizational change this book is a collection of more than 100 problems selected from the examination questions for a graduate course in theoretical physics every problem is discussed and solved in detail a wide range of subjects is covered from potential scattering to atomic nuclear and high energy physics special emphasis is devoted to relativistic quantum mechanics and its application to elementary processes s matrix theory the role of discrete symmetries the use of feynman diagrams and elementary perturbative quantum field theory the course attaches great importance to recitation sessions where thorough problem solving becomes a true test of mastery of theoretical background the authors are experts in their fields a di giacomo taught theoretical physics for about 20 years g paffuti and p rossi held recitations for several years more recently haris panagopoulos followed suit he assisted the authors in preparing this english version translated from the italian for physicists and especially for graduate and advanced undergraduate students in theoretical physics this book is a positive guide in the intricacies of problem solving a further feature that adds practical value to this book is that most problems correspond to realistic physical processes and their numerical results are compared to experimental values whenever possible request inspection copy problem solving is an art that is central to understanding and ability in mathematics with this series of books the authors have provided a selection of problems with complete solutions and test papers designed to be used with or instead of standard textbooks on algebra for the convenience of the reader a key explaining how the present books may be used in conjunction with some of the major textbooks is included each book of problems is divided into chapters that begin with some notes on notation and prerequisites the majority of the material is aimed at the student of average ability but there are some more challenging problems by working through the books the student will gain a deeper understanding of the fundamental concepts involved and practice in the formulation and so solution of other algebraic problems later books in the series cover material at a more advanced level than the earlier titles although each is within its own limits self contained aimed at helping the physics student to develop a solid grasp of basic graduate level material this book presents worked solutions to a wide range of informative problems these problems have been culled from the preliminary and general examinations created by the physics department at princeton university for its graduate program the authors all students who have

successfully completed the examinations selected these problems on the basis of usefulness interest and originality and have provided highly detailed solutions to each one their book will be a valuable resource not only to other students but to college physics teachers as well the first four chapters pose problems in the areas of mechanics electricity and magnetism quantum mechanics and thermodynamics and statistical mechanics thereby serving as a review of material typically covered in undergraduate courses later chapters deal with material new to most first year graduate students challenging them on such topics as condensed matter relativity and astrophysics nuclear physics elementary particles and atomic and general physics from problem solving to solution design creating solutions to solve problems can often prove very difficult to accomplish even for seasoned solution designers complex organizational problems have several stakeholders endless variables and a myriad of possible solutions it s hard enough to figure out where to start and even harder to realize what the perfect mutually beneficial solution is with their combined tenure of over fifty years j eduardo campos and erica w campos present their solution designing expertise in from problem solving to solution design so that you can learn from their successes and their failures to craft sustainable solutions for complex problems specifically you will learn how to implement the i d e a s framework that they have been perfecting over the years which includes five critical checkpoints that any solution designer must hit to create solutions that are successfully envisioned negotiated with stakeholders and implemented to last over time identify the essential problem and prioritize your actions to solve it design solution options aligned to your goals engage your stakeholders in the solution and influence the decision making process act on the agreed upon recommendations and execute your governance model sustain the implemented solution by creating a feedback loop treat this book as your field guide it offers clear checkpoints for you to assist your organization in designing effective solutions for complex problems problem solving is an art that is central to understanding and ability in mathematics with this series of books the authors have provided a selection of problems with complete solutions and test papers designed to be used with or instead of standard textbooks on algebra for the convenience of the reader a key explaining how the present books may be used in conjunction with some of the major textbooks is included each book of problems is divided into chapters that begin with some notes on notation and prerequisites the majority of the material is aimed at the student of average ability but there are some more challenging problems by working through the books the student will gain a deeper understanding of the fundamental concepts involved and practice in the formulation and so solution of other algebraic problems later books in the series cover material at a more advanced level than the earlier titles although each is within its own limits self contained this book intends to provide material for a graduate course on computational commutative algebra and algebraic geometry highlighting potential applications in cryptography also the topics in this book could form the basis of a graduate course that acts as a segue between an introductory algebra course and the more technical topics of commutative algebra and algebraic geometry this book contains a total of 124 exercises with detailed solutions as well as an important number of examples that illustrate definitions theorems and methods this is very important for students or researchers who are not familiar with the topics discussed experience has shown that beginners who want to take their first steps in algebraic geometry are usually discouraged by the difficulty of the proposed exercises and the absence of detailed answers therefore exercises and their solutions as well as examples occupy a prominent place in this course this book is not designed as a comprehensive reference work but rather as a selective textbook the many exercises with detailed answers make it suitable for use in both a math or computer science course pe mechanical thermal and fluid systems six minute problems with solutions fourth edition prepares you to solve even the most difficult pe exam problems with

100 multiple choice problems covering all knowledge areas of the pe mechanical thermal and fluid systems exam you will learn important strategies for solving problems quickly and efficiently the solutions in this edition include references to ncees handbook sections to better prepare you for the computer based format of the exam key features coverage of all exam knowledge areas in the ncees specifications organization of problems into three sections that align with the exam principles hydraulic and fluid applications and energy power system applications problems in the same cbt format as encountered on the pe exam hints for every problem to help you get started step by step solutions detailing how to approach solving each problem references to ncees handbook sections to help you become familiar with the location of important equations figures and tables in the handbook explanations of the faulty reasoning leading to the incorrect answer options numerical calculations are inevitably required in the field of hydrogeology and play a significant role in dealing with its various aspects as often as not students are seen struggling while solving numerical problems based on hydrogeology as they find difficulty in identifying the correct concept behind the problem and the formula that can be applied to it also there is a dearth of books which help the readers in solving numerical problems of varied difficulty level and enable them to have a firm grounding in the subject of hydrogeology the book hydrogeology problems with solutions fills this void in the finest way and as desired chiefly focuses on the sequential steps involved in solving the problems based on hydrogeology it concisely covers the fundamental concepts advanced principles and applications of hydrogeological tasks rather than overemphasising the theoretical aspects the text comprises sixty solved hydrogeological problems which are logically organised into ten chapters including hydrological cycle morphometric analysis hydrological properties groundwater flow well hydraulics well design and construction groundwater management seawater intrusion groundwater exploration and groundwater quality the practice of pedagogy of hydrogeology in yesteryears was a two tier approach of theoretical principles with toy problems and in situ case studies for research start up this book bridges the gap between routine problem solving and state of the practice for future the book is primarily intended for the undergraduate and postgraduate students of earth sciences civil engineering water resources engineering hydrogeology and hydrology it also serves as an excellent handy reference for all professionals key features key concept succinctly explores the models methods and theoretical concepts related to each problem necessary equations and formulae are specified appendices and glossary are included leaving no scope to refer any other book bibliography broadens the scope of the book remarkable puzzlers graded in difficulty illustrate elementary and advanced aspects of probability these problems were selected for originality general interest or because they demonstrate valuable techniques also includes detailed solutions many changes have been made in this edition first to the nomenclature so that the book is in agreement with the international system of units s i and secondly to the circuit diagrams so that they conform to b s s 3939 the book has been enlarged and now has 546 problems much more emphasis has been given to semiconductor devices and transistor circuits additional topics and references for further reading have been introduced some of the original problems and solutions have been taken out and several minor modifications and corrections have been made it could be argued that thermionic valve circuits should not have been mentioned since valves are no longer considered important by most electronic designers except possibly for very high power or voltage applications some of the original problems on valves and valve circuits have been retained however for completeness because the material is still present in many syllabuses and despite the advent and prolification of solid state devices in recent years the good old fashioned valve looks like being in existence for a long time there are still some topics readers may expect to find included which have had to be omitted others have had less space devoted to them than one would have liked a new feature of this edition is that

some problems with answers given at the end of each chapter are left as student exercises so the solutions are not included the author wishes to thank his colleagues professor p n 1 100 based on ncert guidelines 2 important questions have been include chapterwise and unitwise 3 previous year questions with answers of board examinations have been included 4 solved model test papers for board examination preparation for the current year have been included 1 sensing and identification of entrepreneurial opportunities 2 environment scanning 3 market assessment 4 identification of entrepreneurial opportunities and feasibility study 5 selection and setting up of an enterprise 6 business planning 7 concept of project and planning 8 formulation of project report and project appraisal 9 resource assessment financial and non financial 10 fixed and working capital requirements 11 fund flow statement 12 accounting ratios 13 break even analysis 14 venture capital sources and means of funds 15 selection of technology 16 fundamentals of management 17 production management and quality control 18 marketing management 19 financial management 20 determination of cost and profit 21 possibilities and strategies for growth and development in business 22 entrepreneurial discipline and social responsibility model paper set i iv board examination paper solved fawcett chemistry university of california davis introduces modern topics in solution chemistry to senior undergraduates and graduate students who have completed two semesters or three quarters of chemical thermodynamics and statistical mechanics vols 1 69 include more or less complete patent reports of the u s patent office for years 1825 59 problem solving is an art central to understanding and ability in mathematics with this series of books the authors have provided a selection of worked examples problems with complete solutions and test papers designed to be used with or instead of standard textbooks on algebra for the convenience of the reader a key explaining how the present books may be used in conjunction with some of the major textbooks is included each volume is divided into sections that begin with some notes on notation and prerequisites the majority of the material is aimed at the students of average ability but some sections contain more challenging problems by working through the books the student will gain a deeper understanding of the fundamental concepts involved and practice in the formulation and so solution of other problems books later in the series cover material at a more advanced level than the earlier titles although each is within its own limits self contained this volume aims to teach the basic methods of proof and problem solving by presenting the complete solutions to over 600 problems that appear in the companion principles of real analysis 3rd edition student solutions manual partial differential equations boundary value problems with maple there are essentially two theories of solutions that can be considered exact the mcmillan mayer theory and fluctuation solution theory fst the first is mostly limited to solutes at low concentrations while fst has no such issue it is an exact theory that can be applied to any stable solution regardless of the number of components and their concentrations and the types of molecules and their sizes fluctuation theory of solutions applications in chemistry chemical engineering and biophysics outlines the general concepts and theoretical basis of fst and provides a range of applications described by experts in chemistry chemical engineering and biophysics the book which begins with a historical perspective and an introductory chapter includes a basic derivation for more casual readers it is then devoted to providing new and very recent applications of fst the first application chapters focus on simple model binary and ternary systems using fst to explain their thermodynamic properties and the concept of preferential solvation later chapters illustrate the use of fst to develop more accurate potential functions for simulation describe new approaches to elucidate microheterogeneities in solutions and present an overview of solvation in new and model systems including those under critical conditions expert contributors also discuss the use of fst to model solute solubility in a variety of systems the final chapters present a series of biological applications that illustrate the

use of fst to study cosolvent effects on proteins and their implications for protein folding with the application of fst to study biological systems now well established and given the continuing developments in computer hardware and software increasing the range of potential applications fst provides a rigorous and useful approach for understanding a wide array of solution properties this book outlines those approaches and their advantages across a range of disciplines elucidating this robust practical theory according to syllabus for exam up to year 2020 new questions from top schools colleges since 2008 2017 exposes surprise trick questions complete answer keys most efficient method of learning hence saves time arrange from easy to hard both by topics and question types to facilitate easy absorption full set of step by step solution approaches available separately advanced trade book complete and concise ebook editions available also suitable for cambridge gce al h1 h2 cambridge international a as level books available for other subjects including physics chemistry biology mathematics economics english primary level secondary level gce o level gce a level igcse cambridge a level hong kong dse visit yellowreef com for sample chapters and more

The Solution Path

2003-11-20

problem solving is one of the most valuable skills for managers supervisors and executives in the solution path tasos sioukas combines practical techniques and tools with spirituality life skills and an emphasis on relationships and teams he presents proven methods that enable readers to take action and create solutions unlike other books on the subject that leave readers thirsty for inspiration sioukas inspires readers to capitalize on positive thinking and their own creative abilities he assists readers to understand themselves and others so that they can build effective problem solving teams and enables them to use facilitation a set of techniques that help team members maximize their time together the solution path supports readers in taking action on a specific challenge it provides a step by step path to solutions which begins by visualizing ideal outcomes and using creativity exercises to generate as many ideas as possible continues with synthesizing the ideas into the best workable solution and ends with designing an action plan to make the solution a reality the solution path maximizes the collective genius of teams while achieving buy in and commitment for lasting organizational change

International Law Situations with Solutions and Notes

1918

this book is a collection of more than 100 problems selected from the examination questions for a graduate course in theoretical physics every problem is discussed and solved in detail a wide range of subjects is covered from potential scattering to atomic nuclear and high energy physics special emphasis is devoted to relativistic quantum mechanics and its application to elementary processes s matrix theory the role of discrete symmetries the use of feynman diagrams and elementary perturbative quantum field theory the course attaches great importance to recitation sessions where thorough problem solving becomes a true test of mastery of theoretical background the authors are experts in their fields a di giacomo taught theoretical physics for about 20 years g paffuti and p rossi held recitations for several years more recently haris panagopoulos followed suit he assisted the authors in preparing this english version translated from the italian for physicists and especially for graduate and advanced undergraduate students in theoretical physics this book is a positive guide in the intricacies of problem solving a further feature that adds practical value to this book is that most problems correspond to realistic physical processes and their numerical results are compared to experimental values whenever possible request inspection copy

Selected Problems in Theoretical Physics

1994-03-29

problem solving is an art that is central to understanding and ability in mathematics with this series of books the authors have provided a selection of problems with complete solutions and test papers designed to be used with or

instead of standard textbooks on algebra for the convenience of the reader a key explaining how the present books may be used in conjunction with some of the major textbooks is included each book of problems is divided into chapters that begin with some notes on notation and prerequisites the majority of the material is aimed at the student of average ability but there are some more challenging problems by working through the books the student will gain a deeper understanding of the fundamental concepts involved and practice in the formulation and so solution of other algebraic problems later books in the series cover material at a more advanced level than the earlier titles although each is within its own limits self contained

Algebra through practice : a collection of problems in algebra with solutions. 6. Rings, fields and modules

1985

aimed at helping the physics student to develop a solid grasp of basic graduate level material this book presents worked solutions to a wide range of informative problems these problems have been culled from the preliminary and general examinations created by the physics department at princeton university for its graduate program the authors all students who have successfully completed the examinations selected these problems on the basis of usefulness interest and originality and have provided highly detailed solutions to each one their book will be a valuable resource not only to other students but to college physics teachers as well the first four chapters pose problems in the areas of mechanics electricity and magnetism quantum mechanics and thermodynamics and statistical mechanics thereby serving as a review of material typically covered in undergraduate courses later chapters deal with material new to most first year graduate students challenging them on such topics as condensed matter relativity and astrophysics nuclear physics elementary particles and atomic and general physics

Princeton Problems in Physics with Solutions

2015-03-25

from problem solving to solution design creating solutions to solve problems can often prove very difficult to accomplish even for seasoned solution designers complex organizational problems have several stakeholders endless variables and a myriad of possible solutions it s hard enough to figure out where to start and even harder to realize what the perfect mutually beneficial solution is with their combined tenure of over fifty years j eduardo campos and erica w campos present their solution designing expertise in from problem solving to solution design so that you can learn from their successes and their failures to craft sustainable solutions for complex problems specifically you will learn how to implement the i d e a s framework that they have been perfecting over the years which includes five critical checkpoints that any solution designer must hit to create solutions that are successfully envisioned negotiated with stakeholders and implemented to last over time identify the essential problem and prioritize your actions to solve it design solution options aligned to your goals engage your stakeholders in the solution and

influence the decision making process act on the agreed upon recommendations and execute your governance model sustain the implemented solution by creating a feedback loop treat this book as your field guide it offers clear checkpoints for you to assist your organization in designing effective solutions for complex problems

From Problem Solving to Solution Design

2018-04-24

problem solving is an art that is central to understanding and ability in mathematics with this series of books the authors have provided a selection of problems with complete solutions and test papers designed to be used with or instead of standard textbooks on algebra for the convenience of the reader a key explaining how the present books may be used in conjunction with some of the major textbooks is included each book of problems is divided into chapters that begin with some notes on notation and prerequisites the majority of the material is aimed at the student of average ability but there are some more challenging problems by working through the books the student will gain a deeper understanding of the fundamental concepts involved and practice in the formulation and so solution of other algebraic problems later books in the series cover material at a more advanced level than the earlier titles although each is within its own limits self contained

Algebra Through Practice: Volume 2, Matrices and Vector Spaces

1984-09-20

this book intends to provide material for a graduate course on computational commutative algebra and algebraic geometry highlighting potential applications in cryptography also the topics in this book could form the basis of a graduate course that acts as a segue between an introductory algebra course and the more technical topics of commutative algebra and algebraic geometry this book contains a total of 124 exercises with detailed solutions as well as an important number of examples that illustrate definitions theorems and methods this is very important for students or researchers who are not familiar with the topics discussed experience has shown that beginners who want to take their first steps in algebraic geometry are usually discouraged by the difficulty of the proposed exercises and the absence of detailed answers therefore exercises and their solutions as well as examples occupy a prominent place in this course this book is not designed as a comprehensive reference work but rather as a selective textbook the many exercises with detailed answers make it suitable for use in both a math or computer science course

Computational Algebra: Course And Exercises With Solutions

2021-05-17

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2022-09-30

numerical calculations are inevitably required in the field of hydrogeology and play a significant role in dealing with its various aspects as often as not students are seen struggling while solving numerical problems based on hydrogeology as they find difficulty in identifying the correct concept behind the problem and the formula that can be applied to it also there is a dearth of books which help the readers in solving numerical problems of varied difficulty level and enable them to have a firm grounding in the subject of hydrogeology the book hydrogeology problems with solutions fills this void in the finest way and as desired chiefly focuses on the sequential steps involved in solving the problems based on hydrogeology it concisely covers the fundamental concepts advanced principles and applications of hydrogeological tasks rather than overemphasising the theoretical aspects the text comprises sixty solved hydrogeological problems which are logically organised into ten chapters including hydrological cycle morphometric analysis hydrological properties groundwater flow well hydraulics well design and construction groundwater management seawater intrusion groundwater exploration and groundwater quality the practice of pedagogy of hydrogeology in yesteryears was a two tier approach of theoretical principles with toy problems and in situ case studies for research start up this book bridges the gap between routine problem solving and state of the practice for future the book is primarily intended for the undergraduate and postgraduate students of earth sciences civil engineering water resources engineering hydrogeology and hydrology it also serves as an excellent handy reference for all professionals key features key concept succinctly explores the models methods and theoretical concepts related to each problem necessary equations and formulae are specified appendices and glossary are included leaving no scope to refer any other book bibliography broadens the scope of the book

HYDROGEOLOGY: PROBLEMS WITH SOLUTIONS

2016-12-01

remarkable puzzlers graded in difficulty illustrate elementary and advanced aspects of probability these problems

were selected for originality general interest or because they demonstrate valuable techniques also includes detailed solutions

Fifty Challenging Problems in Probability with Solutions

2012-04-26

many changes have been made in this edition first to the nomenclature so that the book is in agreement with the international system of units s i and secondly to the circuit diagrams so that they conform to b s s 3939 the book has been enlarged and now has 546 problems much more emphasis has been given to semiconductor devices and transistor circuits additional topics and references for further reading have been introduced some of the original problems and solutions have been taken out and several minor modifications and corrections have been made it could be argued that thermionic valve circuits should not have been mentioned since valves are no longer considered important by most electronic designers except possibly for very high power or voltage applications some of the original problems on valves and valve circuits have been retained however for completeness because the material is still present in many syllabuses and despite the advent and prolification of solid state devices in recent years the good old fashioned valve looks like being in existence for a long time there are still some topics readers may expect to find included which have had to be omitted others have had less space devoted to them than one would have liked a new feature of this edition is that some problems with answers given at the end of each chapter are left as student exercises so the solutions are not included the author wishes to thank his colleagues professor p n

Problems in Electronics with Solutions

2012-12-06

1 100 based on ncert guidelines 2 important questions have been include chapterwise and unitwise 3 previous year questions with answers of board examinations have been included 4 solved model test papers for board examination preparation for the current year have been included 1 sensing and identification of entrepreneurial opportunities 2 environment scanning 3 market assessment 4 identification of entrepreneurial opportunities and feasibility study 5 selection and setting up of an enterprise 6 business planning 7 concept of project and planning 8 formulation of project report and project appraisal 9 resource assessment financial and non financial 10 fixed and working capital requirements 11 fund flow statement 12 accounting ratios 13 break even analysis 14 venture capital sources and means of funds 15 selection of technology 16 fundamentals of management 17 production management and quality control 18 marketing management 19 financial management 20 determination of cost and profit 21 possibilities and strategies for growth and development in business 22 entrepreneurial discipline and social responsibility model paper set i iv board examination paper solved

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problem solving is an art central to understanding and ability in mathematics with this series of books the authors have provided a selection of worked examples problems with complete solutions and test papers designed to be used with or instead of standard textbooks on algebra for the convenience of the reader a key explaining how the present books may be used in conjunction with some of the major textbooks is included each volume is divided into sections that begin with some notes on notation and prerequisites the majority of the material is aimed at the students of average ability but some sections contain more challenging problems by working through the books the student will gain a deeper understanding of the fundamental concepts involved and practice in the formulation and so solution of other problems books later in the series cover material at a more advanced level than the earlier titles although each is within its own limits self contained

Journal of the Franklin Institute

1896

this volume aims to teach the basic methods of proof and problem solving by presenting the complete solutions to over 600 problems that appear in the companion principles of real analysis 3rd edition

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1871

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The Mineral Industry

1898

there are essentially two theories of solutions that can be considered exact the mcmillan mayer theory and fluctuation solution theory fst the first is mostly limited to solutes at low concentrations while fst has no such issue it is an exact theory that can be applied to any stable solution regardless of the number of components and their concentrations and the types of molecules and their sizes fluctuation theory of solutions applications in chemistry chemical engineering and biophysics outlines the general concepts and theoretical basis of fst and provides a range of applications described by experts in chemistry chemical engineering and biophysics the book which begins with a historical perspective and an introductory chapter includes a basic derivation for more casual readers it is then devoted to providing new and very recent applications of fst the first application chapters focus on simple model binary and ternary systems using fst to explain their thermodynamic properties and the concept of preferential solvation later chapters illustrate the use of fst to develop more accurate potential functions for simulation describe new approaches to elucidate microheterogeneities in solutions and present an overview of solvation in new and model systems including those under critical conditions expert contributors also discuss the use of fst to model solute solubility in a variety of systems the final chapters present a series of biological applications that illustrate the use of fst to study cosolvent effects on proteins and their implications for protein folding with the application of fst to study biological systems now well established and given the continuing developments in computer hardware and software increasing the range of potential applications fst provides a rigorous and useful approach for understanding a wide array of solution properties this book outlines those approaches and their advantages across a range of disciplines elucidating this robust practical theory

Algebra Through Practice

1985-08-15

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1889

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1886

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Quarterly Journal of the Chemical Society of London

1878

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1890

International Record of Medicine and General Practice Clinics

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American Chemical Journal

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Scientific American

1886

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1890

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1879

Johnson's (revised) Universal Cyclopaedia

1890

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1889

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2019-05-05

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