

# Free download Atkins physical chemistry 8th edition solutions manual

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this solutions manual provides the authors detailed solutions to exercises and problems that feature in atkins physical chemistry the manual is intended for instructors and comprises material that is not made available to undergraduates provides solutions to the a exercises and the odd numbered discussion questions and problems that feature in the eighth edition of atkins physical chemistry this manual offers comments and advice to aid understanding it is intended for students and instructors alike this volume features a greater emphasis on the molecular view of physical chemistry and a move away from classical thermodynamics it offers greater explanation and support in mathematics which remains an intrinsic part of physical chemistry combining broad coverage with an innovative use of pedagogy atkins physical chemistry remains the textbook of choice for studying physical chemistry significant re working of the text design makes this edition more accessible for students while also creating a clean and effective text that is more flexible for instructors to teach from provides solutions to the b exercises and the even numbered discussion questions and problems that feature in the eighth edition of atkins physical chemistry chemical tools experimentation and measurement atoms molecules and ions mass relationships in chemical reactions reactions in aqueous solution periodicity and the electronic structure of atoms ionic compounds periodic trends and bonding theory covalent bonding and electron dot structures covalent compounds bonding theories and molecular structure thermochemistry chemical energy gases their properties and behavior liquids solids and phase changes solutions and their properties chemical kinetics chemical equilibrium aqueous equilibria acids and bases applications of aqueous equilibria thermodynamics entropy free energy and equilibrium electrochemistry nuclear chemistry transition elements and coordination chemistry metals and solid state materials the main group elements organic and biological chemistry specialist periodical reports provide systematic and detailed review coverage of progress in the major areas of chemical research written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry for over 80 years the royal society of chemistry and its predecessor the chemical society have been publishing reports charting developments in chemistry which originally took the form of annual reports however by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series specialist periodical reports was born the annual reports themselves still existed but were divided into two and subsequently three volumes covering inorganic organic and physical chemistry for more general coverage of the highlights in chemistry they remain a must since that time the spr series has altered according to the fluctuating degree of activity in various fields of chemistry some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued this bestselling comprehensive laboratory textbook includes experiments with background theoretical information safety recommendations and computer applications for the eighth edition there are updated chapters on spreadsheets and other scientific software physical chemistry and its biological applications presents the basic principles of physical

chemistry and shows how the methods of physical chemistry are being applied to increase understanding of living systems chapters 1 and 2 of the book discuss states of matter and solutions of nonelectrolytes chapters 3 to 5 examine laws in thermodynamics and solutions of electrolytes chapters 6 to 8 look at acid base equilibria and the link between electromagnetic radiation and the structure of atoms chapters 9 to 11 cover different types of bonding the rates of chemical reactions and the process of adsorption chapters 12 to 14 present molecular aggregates magnetic resonance spectroscopy and photochemistry and radiation this book is useful to biological scientists for self study and reference with modest additions of mathematical material by the teacher the book should also be suitable for a full year major s course in physical chemistry contains solutions to all in chapter problems and solutions to even numbered end of chapter problems specialist periodical reports provide systematic and detailed review coverage of progress in the major areas of chemical research written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry for over 80 years the royal society of chemistry and its predecessor the chemical society have been publishing reports charting developments in chemistry which originally took the form of annual reports however by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series specialist periodical reports was born the annual reports themselves still existed but were divided into two and subsequently three volumes covering inorganic organic and physical chemistry for more general coverage of the highlights in chemistry they remain a must since that time the spr series has altered according to the fluctuating degree of activity in various fields of chemistry some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued the current list of specialist periodical reports can be seen on the inside flap of this volume written by stephanie dillon of florida state university this manual contains 24 experiments that focus on real world applications each experiment is specifically referenced to mcmurry fay chemistry 5e and corresponds with one or more topics covered in each chapter a hands on laboratory manual useful for anyone studying general chemistry prepare for exams and succeed in your chemistry course with this comprehensive solutions manual featuring worked out solutions to every odd numbered problem in principles of modern chemistry 8th edition this manual shows you how to approach and solve problems using the same step by step explanations found in your textbook examples critical literature reviews of molecular modelling both theoretical and applied to arrive at some temporary consensus model or models and to present reliable physical data pertaining to water under a range of conditions i e dorsey revisited albeit on a less ambitious scale i should like to acknowledge a debt of gratitude to several of my colleagues to prof d j g ives and prof robert l kay for valuable guidance and active encouragement to the contributors to this volume for their willing cooperation and to my wife and daughters for the understanding shown to a husband and father who hid in his study for many an evening my very special thanks go to mrs joyce johnson who did all the correspondence and much of the arduous editorial work with her usual cheerful efficiency f franks biophysics division unilever research laboratory colworthjwelwyn colworth house sharnbrook bedford march 1972 contents chapter 1 introduction water the unique chemical f franks i Introduction 2 the occurrence and distribution of water on the earth 2 3 water and life 4 4 the scientific study of water a short history 8 5 the place of water among liquids 13 chapter 2 the water molecule c w kern and m karplus 1 introduction 21 2 principles of structure and spectra the born oppenheimer separation 22 3 the electronic motion 26 3 1 the ground electronic state of water 31 3 2 the excited electronic states of water 50 4 the nuclear motion 52 5 external

field effects 70 5 1 perturbed hartree fock method 74 improve your performance at exam time with this manual s complete solutions to the even numbered end of chapter questions and problems answered in appendix 5 including the challenge problems the authors include references to textbook sections and tables to help guide you through the problem solving techniques employed by the authors improve your success in the course with this helpful study guide and workbook this valuable resource contains additional worked examples and problem solving techniques to help you understand the principles of general chemistry each chapter is outlined with fill in the blank activities exercises and self tests ira n levine s sixth edition of physical chemistry provides students with an in depth fundamental treatment of physical chemistry at the same time the treatment is made easy to follow by giving full step by step derivations clear explanations and by avoiding advanced mathematics unfamiliar to students necessary math and physics have thorough review sections worked examples are followed by a practice exercise consistently revised and updated for more than 60 years to reflect the most current research and practice martin s physical pharmacy and pharmaceutical sciences 8th edition is the original and most comprehensive text available on the physical chemical and biological principles that underlie pharmacology and the pharmaceutical sciences an ideal resource for pharmd and pharmacy students worldwide teachers researchers or industrial pharmaceutical scientists this 8th edition has been thoroughly revised enhanced and reorganized to provide readers with a clear consistent learning experience that puts essential principles and concepts in a practical approachable context updated content reflects the latest developments and perspectives across the full spectrum of physical pharmacy and a new full color design makes it easier than ever to discover distinguish and understand information providing users the most robust support available for applying the elements of biology physics and chemistry in work or study specialist periodical reports provide systematic and detailed review coverage of progress in the major areas of chemical research written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry for over 80 years the royal society of chemistry and its predecessor the chemical society have been publishing reports charting developments in chemistry which originally took the form of annual reports however by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series specialist periodical reports was born the annual reports themselves still existed but were divided into two and subsequently three volumes covering inorganic organic and physical chemistry for more general coverage of the highlights in chemistry they remain a must since that time the spr series has altered according to the fluctuating degree of activity in various fields of chemistry some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued this full colour modern physical chemistry text focuses on the core topics of physical chemistry presented within a modern framework of applications extensive mathematical derivations are provided yet the book retains the significant chemical rigor needed in physical chemistry biological chemistry has changed since the completion of the human genome project there is a renewed interest and market for individuals trained in biophysical chemistry and molecular biophysics the physical basis of biochemistry second edition emphasizes the interdisciplinary nature of biophysical chemistry by incorporating the quantitative perspective of the physical sciences without sacrificing the complexity and diversity of the biological systems applies physical and chemical principles to the understanding of the biology of cells and explores the explosive developments in the area of genomics and in turn proteomics bioinformatics and computational and visualization technologies that have occurred in the past seven

years the book features problem sets and examples clear illustrations and extensive appendixes that provide additional information on related topics in mathematics physics and chemistry 1 the book is prepared for the problem solving in chemistry 2 it is divided into 8 chapters 3 each chapter is topically divided into quick theory immediate test and knowledge confirmation test 4 at the end of the each chapter cumulative exercises for jee main advanced for practice 5 acid test for jee mains advance containing all types of questions asked in jee a common phrase among jee aspirants that chemistry is the most scoring subject but the problems asked in jee exams are not directly related but they are based on multiple applications introducing the all new edition of problem physical chemistry jee main advanced volume 1 which is designed to develop the use of the concepts of chemistry in solving the diversified problems as asked in jee the book divides the syllabus into 8 chapters and each chapter has been topically divided in quick theory different types of solved examination followed by immediate test along with the topicwise short exercises knowledge confirmation test at the end of each chapter there are separate cumulative exercises for jee main advanced acid test for jee mains advance are also provided containing all types of questions asked in jee detailed and explanatory solutions provided to all the questions for the better understanding to mole concept and stiochiometry atomic structure stages of matter 1 stages of matter 2 thermodynamic thermochemistry chemical equilibrium ionic equilibrium astrochemistry and astrobiology is the debut volume in the new series physical chemistry in action aimed at both the novice and experienced researcher this volume outlines the physico chemical principles which underpin our attempts to understand astrochemistry and predict astrobiology an introductory chapter includes fundamental aspects of physical chemistry required for understanding the field eight further chapters address specific topics encompassing basic theory and models up to date research and an outlook on future work the last chapter examines each of the topics again but addressed from a different angle written and edited by international experts this text is accessible for those entering the field of astrochemistry and astrobiology while it still remains interesting for more experienced researchers chemical thermodynamics and statistical aspects questions to ask in fundamentals and principles covers a full range of topics in macroscopic and statistical thermodynamics every step in the book is compiled with sharp and precise attention to detail derivations cover fundamental relationships and reinforce and extend the knowledge gained from an earlier exposure to thermodynamics the book is filled with all kinds of physics processes a variety of quantum mechanics and calculus problems involving timely mathematical functions special emphases is given to fundamental concepts and their chemical interpretations which are essential to understanding molecular formation and reaction mechanism this book will be a useful reference source for undergraduates and postgraduates taking courses in chemistry students in chemical engineering and those in the materials sciences it will also be of value to research workers who would like an introduction to the essential principles of physical chemistry includes detailed solutions with the necessary mathematical techniques provided for every problem addresses problems incorporating a variety of types of chemical and physical data to illustrate the interdependence of issues includes a questions and answers feature which differentiates this book from competing books in the field

## Instructor's Solutions Manual to Accompany Atkins' Physical Chemistry, Eighth Edition

2006

this solutions manual provides the authors detailed solutions to exercises and problems that feature in atkins physical chemistry the manual is intended for instructors and comprises material that is not made available to undergraduates

## ***Student's Solutions Manual to Accompany Atkins' Physical Chemistry, Eighth Edition***

2006

provides solutions to the a exercises and the odd numbered discussion questions and problems that feature in the eighth edition of atkins physical chemistry this manual offers comments and advice to aid understanding it is intended for students and instructors alike

## **Atkins' Physical Chemistry**

2010

this volume features a greater emphasis on the molecular view of physical chemistry and a move away from classical thermodynamics it offers greater explanation and support in mathematics which remains an intrinsic part of physical chemistry

## **Physical Chemistry, 8Ed., Pb**

2006-07-26

combining broad coverage with an innovative use of pedagogy atkins physical chemistry remains the textbook of choice for studying physical chemistry significant re working of the text design makes this edition more accessible for students while also creating a clean and effective textthat is more flexible for instructors to teach from

# Atkins' Physical Chemistry

2018

provides solutions to the b exercises and the even numbered discussion questions and problems that feature in the eighth edition of atkins physical chemistry

## Instructor's Solutions Manual to Accompany Atkins' Physical Chemistry, Eighth Edition

2006

chemical tools experimentation and measurement atoms molecules and ions mass relationships in chemical reactions reactions in aqueous solution periodicity and the electronic structure of atoms ionic compounds periodic trends and bonding theory covalent bonding and electron dot structures covalent compounds bonding theories and molecular structure thermochemistry chemical energy gases their properties and behavior liquids solids and phase changes solutions and their properties chemical kinetics chemical equilibrium aqueous equilibria acids and bases applications of aqueous equilibria thermodynamics entropy free energy and equilibrium electrochemistry nuclear chemistry transition elements and coordination chemistry metals and solid state materials the main group elements organic and biological chemistry

## Chemistry

2019-02-05

specialist periodical reports provide systematic and detailed review coverage of progress in the major areas of chemical research written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry for over 80 years the royal society of chemistry and its predecessor the chemical society have been publishing reports charting developments in chemistry which originally took the form of annual reports however by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series specialist periodical reports was born the annual reports themselves still existed but were divided into two and subsequently three volumes covering inorganic organic and physical chemistry for more general coverage of the highlights in chemistry they remain a must since that time the spr series has altered according to the fluctuating degree of activity in various fields of chemistry some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued

## ***Chemical Physics of Solids and Their Surfaces***

2007-10-31

this bestselling comprehensive laboratory textbook includes experiments with background theoretical information safety recommendations and computer applications for the eighth edition there are updated chapters on spreadsheets and other scientific software

## **STUDY GUIDE AND SOLUTIONS MANUAL ORGANIC CHEMISTRY, 8TH ED**

2007-02

physical chemistry and its biological applications presents the basic principles of physical chemistry and shows how the methods of physical chemistry are being applied to increase understanding of living systems chapters 1 and 2 of the book discuss states of matter and solutions of nonelectrolytes chapters 3 to 5 examine laws in thermodynamics and solutions of electrolytes chapters 6 to 8 look at acid base equilibria and the link between electromagnetic radiation and the structure of atoms chapters 9 to 11 cover different types of bonding the rates of chemical reactions and the process of adsorption chapters 12 to 14 present molecular aggregates magnetic resonance spectroscopy and photochemistry and radiation this book is useful to biological scientists for self study and reference with modest additions of mathematical material by the teacher the book should also be suitable for a full year major s course in physical chemistry

## ***Experiments in Physical Chemistry***

2009

contains solutions to all in chapter problems and solutions to even numbered end of chapter problems

## ***Physical Chemistry and Its Biological Applications***

2012-12-02

specialist periodical reports provide systematic and detailed review coverage of progress in the major areas of chemical research written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in

particular areas of chemistry for over 80 years the royal society of chemistry and its predecessor the chemical society have been publishing reports charting developments in chemistry which originally took the form of annual reports however by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series specialist periodical reports was born the annual reports themselves still existed but were divided into two and subsequently three volumes covering inorganic organic and physical chemistry for more general coverage of the highlights in chemistry they remain a must since that time the spr series has altered according to the fluctuating degree of activity in various fields of chemistry some titles have remained unchanged while others have altered their emphasis along with their titles some have been combined under a new name whereas others have had to be discontinued the current list of specialist periodical reports can be seen on the inside flap of this volume

## **Selected Solution Manual for Chemistry**

2019-01-04

written by stephanie dillon of florida state university this manual contains 24 experiments that focus on real world applications each experiment is specifically referenced to mcmurry fay schemistry 5eand corresponds with one or more topics covered in each chapter a hands on laboratory manual useful for anyone studying general chemistry

## **Mass Spectrometry**

2007-10-31

prepare for exams and succeed in your chemistry course with this comprehensive solutions manual featuring worked out solutions to every odd numbered problem in principles of modern chemistry 8th edition this manual shows you how to approach and solve problems using the same step by step explanations found in your textbook examples

## ***Physical chemistry 2006***

2006

critical literature reviews of molecular modelling both theoretical and applied



# Chemistry

2007-06

to arrive at some temporary consensus model or models and to present reliable physical data pertaining to water under a range of conditions i e dorsey revisited albeit on a less ambitious scale i should like to acknowledge a debt of gratitude to several of my colleagues to prof d j g ives and prof robert l kay for valuable guidance and active encouragement to the contributors to this volume for their willing cooperation and to my wife and daughters for the understanding shown to a husband and father who hid in his study for many an evening my very special thanks go to mrs joyce johnson who did all the correspondence and much of the arduous editorial work with her usual cheerful efficiency f franks biophysics division unilever research laboratory colworthjwelwyn colworth house sharnbrook bedford march 1972 contents chapter 1 introduction water the unique chemical f franks i Introduction 2 the occurrence and distribution of water on the earth 2 3 water and life 4 4 the scientific study of water a short history 8 5 the place of water among liquids 13 chapter 2 the water molecule c w kern and m karplus 1 introduction 21 2 principles of structure and spectra the born oppenheimer separation 22 3 the electronic motion 26 3 1 the ground electronic state of water 31 3 2 the excited electronic states of water 50 4 the nuclear motion 52 5 external field effects 70 5 1 perturbed hartree fock method 74

## Student Solutions Manual for Oxtoby/Gillis/Butler's Principles of Modern Chemistry, 8th

2015-08-26

improve your performance at exam time with this manual's complete solutions to the even numbered end of chapter questions and problems answered in appendix 5 including the challenge problems the authors include references to textbook sections and tables to help guide you through the problem solving techniques employed by the authors

## *Chemical Modelling*

2011

improve your success in the course with this helpful study guide and workbook this valuable resource contains additional worked examples and problem solving techniques to help you understand the principles of general chemistry each chapter is outlined with fill in the blank activities exercises and self tests

## Physical Chemistry Through Problems

1984

ira n levine s sixth edition of physical chemistry provides students with an in depth fundamental treatment of physical chemistry at the same time the treatment is made easy to follow by giving full step by step derivations clear explanations and by avoiding advanced mathematics unfamiliar to students necessary math and physics have thorough review sections worked examples are followed by a practice exercise

## The Physics and Physical Chemistry of Water

2012-12-06

consistently revised and updated for more than 60 years to reflect the most current research and practice martin s physical pharmacy and pharmaceutical sciences 8th edition is the original and most comprehensive text available on the physical chemical and biological principles that underlie pharmacology and the pharmaceutical sciences an ideal resource for pharmd and pharmacy students worldwide teachers researchers or industrial pharmaceutical scientists this 8th edition has been thoroughly revised enhanced and reorganized to provide readers with a clear consistent learning experience that puts essential principles and concepts in a practical approachable context updated content reflects the latest developments and perspectives across the full spectrum of physical pharmacy and a new full color design makes it easier than ever to discover distinguish and understand information providing users the most robust support available for applying the elements of biology physics and chemistry in work or study

## Chemistry

2011-03-25

specialist periodical reports provide systematic and detailed review coverage of progress in the major areas of chemical research written by experts in their specialist fields the series creates a unique service for the active research chemist supplying regular critical in depth accounts of progress in particular areas of chemistry for over 80 years the royal society of chemistry and its predecessor the chemical society have been publishing reports charting developments in chemistry which originally took the form of annual reports however by 1967 the whole spectrum of chemistry could no longer be contained within one volume and the series specialist periodical reports was born the annual reports themselves still existed but were divided into two and subsequently three volumes covering inorganic organic and physical chemistry for more general coverage of the highlights in

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### ***Student Solutions Manual for Masterton/Hurley's Chemistry: Principles and Reactions, 8th***

2015-07-13

this full colour modern physical chemistry text focuses on the core topics of physical chemistry presented within a modern framework of applications extensive mathematical derivations are provided yet the book retains the significant chemical rigor needed in physical chemistry

### **Study Guide and Workbook for Masterton/Hurley's Chemistry: Principles and Reactions, 8th**

2015-07-10

biological chemistry has changed since the completion of the human genome project there is a renewed interest and market for individuals trained in biophysical chemistry and molecular biophysics the physical basis of biochemistry second edition emphasizes the interdisciplinary nature of biophysical chemistry by incorporating the quantitative perspective of the physical sciences without sacrificing the complexity and diversity of the biological systems applies physical and chemical principles to the understanding of the biology of cells and explores the explosive developments in the area of genomics and in turn proteomics bioinformatics and computational and visualization technologies that have occurred in the past seven years the book features problem sets and examples clear illustrations and extensive appendixes that provide additional information on related topics in mathematics physics and chemistry

### ***The Physical Chemistry of Electrolytic Solutions***

1958

1 the book is prepared for the problem solving in chemistry 2 it is divided into 8 chapters 3 each chapter is topically divided into quick theory immediate test and knowledge confirmation test 4 at the end of the each chapter cumulative exercises for jee main advanced for practice 5 acid test for jee mains advance containing all types of questions asked in jee a common phrase among jee aspirants that chemistry is the most scoring subject but the problems asked in jee exams are not directly related but they are based on multiple applications introducing the all new edition of problem

physical chemistry jee main advanced volume 1 which is designed to develop the use of the concepts of chemistry in solving the diversified problems as asked in jee the book divides the syllabus into 8 chapters and each chapter has been topically divided in quick theory different types of solved examination followed by immediate test along with the topicwise short exercises knowledge confirmation test at the end of each chapter there are separate cumulative exercises for jee main advanced acid test for jee mains advance are also provided containing all types of questions asked in jee detailed and explanatory solutions provided to all the questions for the better understanding toc mole concept and stiochiometry atomic structure stages of matter 1 stages of matter 2 thermodynamic thermochemistry chemical equilibrium ionic equilibrium

## ***Physical Chemistry***

2009

astrochemistry and astrobiology is the debut volume in the new series physical chemistry in action aimed at both the novice and experienced researcher this volume outlines the physico chemical principles which underpin our attempts to understand astrochemistry and predict astrobiology an introductory chapter includes fundamental aspects of physical chemistry required for understanding the field eight further chapters address specific topics encompassing basic theory and models up to date research and an outlook on future work the last chapter examines each of the topics again but addressed from a different angle written and edited by international experts this text is accessible for those entering the field of astrochemistry and astrobiology while it still remains interesting for more experienced researchers

## **Martin's Physical Pharmacy and Pharmaceutical Sciences**

2023-02-08

chemical thermodynamics and statistical aspects questions to ask in fundamentals and principles covers a full range of topics in macroscopic and statistical thermodynamics every step in the book is compiled with sharp and precise attention to detail derivations cover fundamental relationships and reinforce and extend the knowledge gained form an earlier exposure to thermodynamics the book is filled with all kinds of physics processes a variety of quantum mechanics and calculus problems involving timely mathematical functions special emphases is given to fundamental concepts and their chemical interpretations which are essential to understanding molecular formation and reaction mechanism this book will be a useful reference source for undergraduates and postgraduates taking courses in chemistry students in chemical engineering and those in the materials sciences it will also be of value to research workers who would like an introduction to the essential principles of physical chemistry includes detailed solutions with the necessary mathematical techniques provided for every problem addresses problems incorporating a variety of types of chemical and physical data to illustrate the interdependence of issues includes a questions and answers feature which differentiates this book from competing

books in the field

## **Overdrive Ch 7 and 8 Physical Chemistry**

2002-01-01

### ***Modern Physical Chemistry***

1984

## **Chemistry**

2011-04-27

## **Os Organoosmium Compounds**

1995-11-24

### ***Electrochemistry***

2007-10-31

## **Physical Chemistry**

2013-07-29

## **The Physical Basis of Biochemistry**

2010-09-10

## **Chemistry**

2021

## **Problems in Physical Chemistry JEE Main and Advanced Volume 1**

2021-04-05

## ***Chemistry***

2010

## ***Student Solutions Manual to Accompany Physical Chemistry, Fifth Edition***

2002

## ***Astrochemistry and Astrobiology***

2012-10-28

## Chemical Thermodynamics and Statistical Aspects

2023-06-27

## **Communities of Molecules**

1978

## Physical Chemistry

1979

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