



# PRINCIPLES OF NEURAL SCIENCE

Sixth Edition

Eric R. Kandel  
John D. Koester  
Sarah H. Mack  
Steven A. Siegelbaum

Mc  
Graw  
Hill

# Kandel Principles Of Neural Science 6th Edition

**R Barnett**



## **Kandel Principles Of Neural Science 6th Edition:**

Principles of Neural Science, Sixth Edition Eric R. Kandel, John D. Koester, Sarah H. Mack, Steven A. Siegelbaum, 2021-04-05 The gold standard of neuroscience texts updated with hundreds of brand new images and fully revised content in every chapter Doody's Core Titles for 2023 For more than 40 years Principles of Neural Science has helped readers understand the link between the human brain and behavior As the renowned text has shown all behavior is an expression of neural activity and the future of both clinical neurology and psychiatry is dependent on the progress of neural science Fully updated this sixth edition of the landmark reference reflects the latest research clinical perspectives and advances in the field It offers an unparalleled perspective on the the current state and future of neural science This new edition features Unmatched coverage of how the nerves brain and mind function NEW chapters on The Computational Bases of Neural Circuits that Mediate Behavior Brain Machine Interfaces Decision Making and Consciousness NEW section on the neuroscientific principles underlying the disorders of the nervous system Expanded coverage of the different forms of human memory Highly detailed chapters on stroke Parkinson's disease and multiple sclerosis 2 200 images including 300 new color illustrations diagrams radiology studies and PET scans Principles of Neural Science Sixth Edition benefits from a cohesive organization beginning with an insightful overview of the interrelationships between the brain nervous system genes and behavior The text is divided into nine sections Part I Overall Perspective provides an overview of the broad themes of neural science including the basic anatomical organization of the nervous system and the genetic bases of nervous system function and behavior Part II Cell and Molecular Biology of Cells of the Nervous System examines the basic properties of nerve cells including the generation and conduction of propagated signaling Part III Synaptic Transmission focuses on the electrophysiological and molecular mechanism of synaptic transmission with chapters on neuronal excitability neurotransmitters and transmitter release Part IV Perception discusses the various aspects of sensory perception including how information from the primary organs of sensation is transmitted to and processed by the central nervous system Part V Movement considers the neural mechanisms underlying movement and examines a new treatment that addresses how the basal ganglia regulate the selection of motor actions and instantiate reinforcement learning Part VI The Biology of Emotion Motivation and Homeostasis examines the neural mechanisms by which subcortical areas mediate homeostatic control mechanisms emotions and motivation Part VII Development and the Emergence of Behavior looks at the nervous system from early embryonic differentiation to the formation and elimination of synapses Part VIII Learning Memory Language and Cognition expands on the previous section examining the cellular mechanisms of implicit and explicit memory storage as well as decision making and consciousness Part IX explores the neural mechanisms underlying diseases and disorders of the nervous system including autism spectrum disorder epilepsy schizophrenia and anxiety *Principles of Neural Science, Fifth Edition* Eric R. Kandel, 2013 Principles of Neural Science 5e describes our current understanding of how the nerves

brain and mind function From molecules and cells to anatomic structures and systems to senses and cognitive functions this comprehensive reference covers every aspect of neuroscience      Neuroscience Fundamentals for Communication Sciences and Disorders, Second Edition Richard D. Andreatta, 2022-10-13 Neuroscience Fundamentals for Communication Sciences and Disorders Second Edition is a comprehensive textbook primarily designed for undergraduate neural bases or graduate neuroscience courses in communication sciences and disorders programs CSD The text can also be used as an accessible go to reference for speech language pathology and audiology clinical professionals practicing in medical and rehab settings Written with an engaging and conversational style the author uses humor and analogies to explain concepts that are often challenging for students Complemented by more than 400 visually rich and beautifully drawn full color illustrations the book emphasizes brain and behavior relationships while also ensuring coverage of essential neuroanatomy and neurophysiology in an integrative fashion With a comprehensive background in the principles processes and structures underlying the workings of the human nervous system students and practitioners alike will be able to better understand and apply brain behavior relationships to make appropriate clinical assessments and treatment decisions Extending well beyond traditional neuroanatomy based textbooks this resource is designed to satisfy three major goals Provide neuroanatomical and neurophysiological detail that meets the real world needs of the contemporary CSD student as they move forward toward clinical practice and into the future where advancements in the field of health and brain sciences are accelerating and contributing more and more each day to all areas of rehabilitation Provide clear understandable explanations and intuitive material that explains how and why neuroanatomical systems processes and mechanisms of the nervous system operate as they do during human behavior Provide a depth and scope of material that will allow the reader to better understand and appreciate a wide range of evidence based literature related to behavior cognition emotion language and sensory perception areas that all directly impact treatment decisions New to the Second Edition 40 new full color illustrations Reorganization and division of content from Chapters 4 5 and 6 of the previous edition into six new and more digestible chapters A new standalone chapter on the cranial nerves Addition of a major section and discussion on the neural bases of swallowing Addition of more summary tables and process flowcharts to simplify the text and provide ready made study materials for students Revisions to most figures to improve their clarity and coherence with the written material Disclaimer Please note that ancillary content such as documents audio and video etc may not be included as published in the original print version of this book      **Principles of Neural Science** Eric R. Kandel, John D. Koester, Sarah H. Mack, Steven A. Siegelbaum, 2021 The goal of this sixth edition of Principles of Neural Science is to provide readers with insight into how genes molecules neurons and the circuits they form give rise to behavior With the exponential growth in neuroscience research over the 40 years since the first edition of this book an increasing challenge is to provide a comprehensive overview of the field while remaining true to the original goal of the first edition which is to elevate imparting basic principles over detailed encyclopedic knowledge

*Neuroanatomy and Neurophysiology for Speech and Hearing Sciences, Second Edition* J. Anthony Seikel, Kostas Konstantopoulous, David G. Drumright, 2025-09-24 For undergraduate or graduate courses Neuroanatomy and Neurophysiology for Speech and Hearing Sciences Second Edition provides a thorough yet readable examination of the neuroanatomical underpinnings within communication sciences and disorders Each chapter begins with clear learning outcomes and a concise overview that sets the context helping students understand the relevance and importance of the material Additionally each chapter ends with a number of clinical cases intended to prime the student's problem solving clinical skills in their future profession After an introduction to the field and to anatomical concepts the text takes the student from discussion of neurons and other basic components to examination of basic reflexes and sensorimotor integration The following chapters focus on the cerebral cortex and its function particularly as related to neurophysiology of speech and hearing The next section of the text discusses subcortical structures the brainstem cranial nerves cerebellum and pathways The subsequent chapters include discussion of neural control of speech and swallowing and the anatomy and physiology of hearing The chapter on prenatal and postnatal development and aging of the brain and hearing mechanism explores the neurophysiological elements that contribute to changes in speech and hearing that are seen throughout the lifetime The final chapter examines large brain networks and neural plasticity of the systems of speech language and hearing New to the Second Edition New original artwork presented in full color A chapter dedicated to the auditory mechanism and auditory pathways A chapter discussing prenatal and postnatal development of the brain and auditory mechanisms as well as effects of aging on these systems A chapter that examines large brain networks and neural plasticity as related to speech language and hearing New illustrative case studies Key Features More than 92 tables that provide succinct depth and detail to the content 29 neurological fully annotated case studies with SLP diagnostic information as well as 6 cases from neurosurgeons that include MRI and or video 59 boxed notes give informative and fascinating support to the content including focus on neuroscience as it relates to speech language pathology and audiology Coverage of the neurophysiology of swallowing Detailed discussion of auditory pathway and signal analysis Clearly written with abundant supporting citations Key terms are highlighted throughout the text and included in a glossary Listing of abbreviations for each chapter Please note ancillary content such as Neuroquest study software and student quizzes are not included as with the print version of this book

*Fundamentals of Brain and Behavior* William J. Ray, 2024-02-02 Fundamentals of Brain and Behavior provides an accessible introduction to the study of human neuroscience The book has been carefully designed to accompany a typical entry level course covering core topics including the function and structure of the nervous system basic human motivations stress and health and cognitive functioning In addition to traditional topics the book also includes dedicated chapters on the social brain neurocognitive disorders and brain imaging techniques ensuring students gain a thorough understanding of the field in its broadest sense An evolutionary approach is also taken throughout providing a truly unique perspective on our

understanding of brain and behavior The text is supported by colorful and informative diagrams alongside a plethora of student friendly features such as learning objectives case studies and concept checks The book is also supported by online resources including basics of neuroscience videos Helping students understand the basics of human neuroscience across evolutionary time Fundamentals of Brain and Behavior is an essential text for all students of Behavioral Neuroscience especially those approaching the subject for the first time

**Neuromechanics of Human Movement** Roger M. Enoka, 2024-05-01 Neuromechanics of Human Movement Sixth Edition integrates knowledge from the fields of neurophysiology and biomechanics into a unified framework known as neuromechanics This contemporary approach transcends traditional approaches that focus solely on mechanics and do not consider the role of the sensorimotor system in the control of human movement Authored by Roger Enoka a widely recognized and esteemed scholar in neuromechanics this influential text makes complex information accessible to students of biomechanics motor learning and applied physiology With more than 500 new references from contemporary research this sixth edition provides a scientific foundation to the study of human movement employing precise terms and definitions when discussing ideas The end of the book includes an appendix that showcases both the base and derived units of the metric system an appendix that features curve fitting and smoothing to help readers understand how to reduce noise in their data an appendix on body segment properties and an appendix that covers the motion at the major joints of the human body The book also includes a glossary of key terms to help readers better understand the material The text includes more than 50 practical learning examples giving students the opportunity to work through a variety of problems and explore current research and applications Content is visually reinforced with over 325 figures including illustrations of the neuromechanics involved in sport and rehabilitation movements to engage students Significant content updates in the sixth edition present information relevant for both research and clinical environments including more contemporary examples throughout the text The latest edition includes new information on the following subjects Wearables to track movement kinematics Characterization of gait disorders Technical advances in electromyography Interactions between muscle tendon bone and joint Intermuscular reflex pathways Control of intentional actions Fatigue and fatigability Training protocols Motor recovery after nervous system injury To encourage a comprehensive learning experience the text follows a logical progression in which each part builds on the material from the previous section It begins with an introduction to the biomechanical terms commonly used to describe movement focusing on the relationship between force and motion Part II deals with the motor system and introduces essential concepts from neurophysiology required for understanding how movement is produced by the nervous system Part III focuses on adaptability of the motor system including the acute and chronic changes that can occur in response to deviations in an individual's level of physical activity The sixth edition of Neuromechanics of Human Movement provides a scientific basis for the study of human movement while continuing to expand current knowledge in the fields of biomechanics and neurophysiology By integrating

these fields in a unique framework this text offers professionals and students both valuable clinical information and inspiration to deepen their study of human movement *Neuroanatomy Text and Atlas, Fifth Edition* John D. Martin, 2019-12-22 A regional and functional approach to learning human neuroanatomy enhanced by additional full color illustrations and PowerPoint slides of all images in the text for instructors Neuroanatomy Text and Atlas covers neuroanatomy from both a functional and regional perspective to provide an understanding of how the components of the central nervous system work together to sense the world around us regulate body systems and produce behavior This trusted text thoroughly covers the sensory motor and integrative skills of the brains and presents an overview of the function in relation to structure and the locations of the major pathways and neuronal integrative regions Neuroanatomy Text and Atlas also teaches readers how to interpret the new wealth of human brain images by developing an understanding of the anatomical localization of brain function The authoritative core content of myelin stained histological sections is enhanced by informative line illustrations angiography and brain views produced by MRI and other imaging technologies Revised and updated to reflect advances in clinical neuroanatomy and neural science Full color illustrations enrich the text including many new to this edition Chapters begin with a clinical case to illustrate the connections and functions of the key material Chapters end with a series of multiple choice review questions NEW Online learning center will display brain views produced by MRI and PET Increases knowledge of the regional and functional organization of the spinal cord and brain one system at a time Provides thorough coverage of the sensory motor and integrative systems of the brain together with cerebral vasculature Promotes understanding of the complex details of neuroanatomy needed for accurate interpretation of radiological image Comprehensive atlas provides key views of the surface anatomy of the central nervous systems and photographs of myelin stained sections in three anatomical planes Includes learning aids such as clinical topics boxes chapter summaries and a Glossary of key terms and structures *Glycobiology of the Nervous System* Cara-Lynne Schengrund, Robert K. Yu, 2022-10-18 This new edition provides comprehensive coverage of the variety and complexity of the roles that glycoconjugates play in the cells of the nervous system Basic fundamental principles as well as the latest developments in neural glycobiology are discussed Topics covered range from the structure and metabolism of the saccharide chains and current approaches used in their study to changes glycoconjugates undergo during development and aging of the nervous system and the roles they have in neurological disease New topics include a detailed discussion of cells found within the nervous system an extensive listing of congenital disorders of glycosylation of both proteins and lipids the roles of glycans in neuronal axon growth guidance and voltage gated channels the role of intra lysosomal luminal vesicles in lysosomal storage disorders and in the time of the COVID 19 pandemic the role of carbohydrates in infection by SARS CoV 2 The breadth and depth of topics covered make this an essential reference for those new to the field as well as for more experienced investigators *The Missing Gene* Jay Joseph, 2006 Researchers still haven't found the genes that underlie

schizophrenia bipolar disorder ADHD and autism perhaps they do not exist A genetic researcher in psychiatry and psychology urges we return our focus to family social and political environments as the sources of psychological distress

*Exercise Physiology* William J. Kraemer, Steven J. Fleck, Michael R. Deschenes, 2025-01-03 Gain the scientific knowledge and practical decision making skills you need to excel in the strength conditioning clinical exercise physiology and health related professions with *Exercise Physiology Integrating Theory and Application* 4th Edition This accessible and engaging text helps you connect theory to practice offering a thorough understanding of how the body adapts to exercise and environmental stresses and how physiology helps in making informed real world decisions This new edition reflects new research and evidence in the field effectively preparing you for the diverse case scenarios most often seen by personal trainers strength coaches fitness instructors athletic trainers and other health professionals *GeNeDis 2022* Panagiotis Vlamos, 2023-07-24 The 5th World Congress on Genetics Geriatrics and Neurodegenerative Diseases Research *GeNeDis 2022* focuses on the latest major challenges in scientific research new drug targets the development of novel biomarkers new imaging techniques novel protocols for early diagnosis of neurodegenerative diseases and several other scientific advances with the aim of better safer and healthier aging Computational methodologies for implementation on the discovery of biomarkers for neurodegenerative diseases are extensively discussed This volume focuses on the sessions from the conference regarding computational biology and bioinformatics **Neuroanatomy and the Neurologic Exam** Terence R. Anthony, 2017-11-01 In this book *Neuroanatomy and the Neurologic Exam* is an innovative comprehensive thesaurus that surveys terminology from neuroanatomy and the neurologic examination as well as related general terms from neurophysiology neurohistology neuroembryology neuroradiology and neuropathology The author prepared the thesaurus by examining how terms were used in a large sample of recent widely used general textbooks in basic neuroanatomy and clinical neurology These textbooks were written by experts who received their primary professional training in 13 different countries allowing the thesaurus to incorporate synonyms and conflicting definitions that occur as a result of variations in terminology used in other countries The thesaurus contains *Neuroscience: Exploring the Brain* Mark Bear, Barry Connors, Michael A. Paradiso, 2025-07-11 An overview of Neuroscience covering complex topics in an accessible style enhanced by a strong art program and contributions by leading experts in the field designed to illuminate the relevance of the material to students *Umphred's Neurological Rehabilitation - E-Book* Rolando T. Lazaro, Sandra G. Reina-Guerra, Myla Quiben, 2019-12-05 Selected for Doody's Core Titles 2024 in Physical Medicine and Rehabilitation Develop problem solving strategies for individualized effective neurologic care Under the new leadership of Rolando Lazaro *Umphred's Neurological Rehabilitation* 7th Edition covers the therapeutic management of people with activity limitations participation restrictions and quality of life issues following a neurological event This comprehensive reference reviews basic theory and addresses the best evidence for evaluation tools and interventions commonly used in today's clinical practice It applies a time tested



evidence based approach to neurological rehabilitation that is perfect for both the classroom and the clinic Now fully searchable with additional case studies through Student Consult this edition includes updated chapters and the latest advances in neuroscience Comprehensive reference offers a thorough understanding of all aspects of neurological rehabilitation Expert authorship and editors lend their experience and guidance for on the job success UNIQUE A section on neurological problems accompanying specific system problems includes hot topics such as poor vision vestibular dysfunction dementia and problems with cognition and aging with a disability A problem solving approach helps you apply your knowledge to examinations evaluations prognoses and intervention strategies Evidence based research sets up best practices covering topics such as the theory of neurologic rehabilitation screening and diagnostic tests treatments and interventions and the patient s psychosocial concerns Case studies use real world examples to promote problem solving skills Comprehensive coverage of neurological rehabilitation across the lifespan from pediatrics to geriatrics Terminology adheres to the best practices follows The Guide to Physical Therapy Practice and the WHO ICF World Health model NEW enhanced eBook on Student Consult UPDATED Color photos and line drawings clearly demonstrate important concepts and clinical conditions students will encounter in practice NEW and EXPANDED Additional case studies and videos illustrate how concepts apply to practice Updated chapters incorporate the latest advances and the newest information in neurological rehabilitation strategies NEW and UNIQUE New chapter on concussion has been added Separate and expanded chapters on two important topics Balance and Vestibular

Reglaj fin pentru viață: Minunile anatomiei umane Dr. Octavian Caius Obeada, Reglaj fin pentru via Minunile anatomiei umane i poart pe cititori ntr o c l torie revelatoare prin armonia profund care leag universul i corpul uman Explor nd precizia extraordinar a constantelor cosmice precum gravita ia i for a electromagnetic cartea eviden iaz modul n care aceste for e rezoneaz profund n propria noastr anatomie sus in nd via a prin echilibre biochimice delicate Aceast nara iune se scufund n sistemele complexe ale corpului dezv luind at t fragilitatea c t i rezisten a lor remarcabile Combin nd tiin a filozofia i teologia cartea argumenteaz n mod conving tor n favoarea unui design inten ionat invit nd cititorii s se minuneze de complexitatea frumoase ea i inten ionalitatea esute n cosmos i n existen a uman

Reglaj fin pentru via Minunile anatomiei umane este o explorare profund a echilibrului delicat care sus ine at t universul c t i corpul uman Dr Octavian Caius Obeada face o leg tur magistral ntre tiin filozofie i credin ghid nd cititorii prin designul complex care st la baza existen ei nse i Cu o perspectiv profund i o analiz conving toare aceast carte ne provoac s ne oprim s reflect m i s reconsider m ns i natura vie ii i a timpului O lectur care provoac la g ndire pentru oricine este curios despre intersec ia dintre tiin i sens Adrian Anthony Dormans MD FAAFP Aceast carte este o explorare profund i conving toare a subiectului s u oferind at t profunzime c t i claritate Scris cu aten ie i extrem de captivant ea ofer perspective nepre uite care vor provoca i inspira cititorii O lucrare cu adev rat excelent Nalin Epa Ranasinghe MD Emergency Medicine General Medicine Aceast carte examineaz n mod conving tor constantele fizice i procesele biologice complexe care sus in via a

Capitolul despre conexiunea minte corp este deosebit de provocator ridicând întrebări importante despre natura conștiinței și fiabilitatea cogniției umane. Provocând explicații pur materialiste, autorul invită cititorii să ia în considerare posibilitatea unui design intenționat. Această carte este o lectură fascinantă și bine documentată pentru oricine este interesat de intersecția dintre știință, filozofie și întrebările mai profunde ale existenței. Miya McCann, Ed.D., c. MS, RN, Assistant Chair for Hartwick School of Nursing, Assistant Professor, Reglaj fin pentru via. Minunile anatomiei umane explorează designul complex și condițiile precise necesare existenței umane. Dr. Obead analizează factorii fizici, biochimici și psihologici, argumentând în favoarea unui reglaj fin al vieții. Cartea oferă explicații accesibile despre mecanismele corpului și impactul său asupra minții, încheindu-se cu o reflecție asupra unui posibil design inteligent. O lectură captivantă care provoacă cititorul să vadă viața ca parte a unui plan mai mare. Sergiu Marius Brădean, M.A., i.M., Div. de la Seminarul Teologic Baptist Central din Minneapolis, pastor la Prima Biserică Baptistă Română din Windsor, Ontario.

**Early's Physical Dysfunction Practice Skills for the Occupational Therapy Assistant E-Book**  
 Mary Beth Patnaude, 2021-01-15 NEW Intervention Principles for Feeding and Eating chapter is added to this edition NEW Reorganization of all chapters aligns content more closely with the Occupational Therapy Practice Framework NEW Combined chapters make the material more concise and easier to navigate

**The Developing Mind, Second Edition**  
 Daniel J. Siegel, 2012-02-21 This bestselling book put the field of interpersonal neurobiology on the map for over 100,000 readers. Daniel J. Siegel goes beyond the nature and nurture divisions that traditionally have constrained much of our thinking about development, exploring the role of interpersonal relationships in forging key connections in the brain. He presents a groundbreaking new way of thinking about the emergence of the human mind and the process by which each of us becomes a feeling, thinking, remembering individual. Illuminating how and why neurobiology matters, this book is essential reading for clinicians, educators, researchers, and students interested in promoting healthy development and resilience. Professors praise the book's utility in courses from developmental psychology and child development to neuroscience and counseling. New to This Edition: Incorporates significant scientific and technical advances. Expanded discussions of cutting-edge topics including neuroplasticity, epigenetics, mindfulness, and the neural correlates of consciousness. Useful pedagogical features: pull-out diagrams and a glossary. Epilogue on domains of integration, specific pathways to well-being, and therapeutic change.

**Physical Medicine & Rehabilitation Secrets** Bryan J. O'Young, Mark A. Young, Steven A. Stiens, Sam S.H. Wu, 2022-12-15 For more than 30 years the highly regarded Secrets Series has provided students, academics, and practitioners in all areas of health care with concise, focused, and engaging resources for quick reference and exam review. Physical Medicine and Rehabilitation Secrets, 4th Edition, offers practical, up-to-date coverage of the full range of essential topics in this dynamic field. This highly regarded resource features the Secrets popular question and answer format that also includes lists, tables, weblinks, pearls, memory aids, and an easy-to-read style making an inquiry, reference, and review quick, easy, and enjoyable. The proven Secrets Series format gives you the most return for your time: concise, easy to read, engaging.

and highly effective Fully revised and updated including new information on geriatric rehabilitation rehabilitation philosophy vocational rehabilitation disability rating and impairments and legislation and reimbursement New chapters and content include Longitudinal Learning Regenerative Medicine Musculoskeletal Ultrasound PM Spinal Deformity and more Top 100 Secrets and Key Points boxes provide a rapid overview of the secrets you must know for success in practice exams and teaching sessions Bulleted lists mnemonics and practical tips from global leaders in the field provide a concise overview of important board relevant content Portable size makes it easy to carry with you for quick reference or review anywhere anytime Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices

Mathematics in Biology Markus Meister, Kyu Hyun Lee, Ruben Portugues, 2025-02-18 A concise but rigorous textbook for advanced undergraduate and graduate students across the biological sciences that provides a foundation for understanding the methods used in quantitative biology Biology has turned into a quantitative science The core problems in the life sciences today involve complex systems that require mathematical expression yet most biologists are untrained in this dimension of the discipline Bridging that gap this practical textbook equips students to integrate advanced mathematical concepts with their biological education Mathematics in Biology covers three broad subjects linear algebra probability and statistics and dynamical systems each treated at three levels basic principles advanced topics and applications Motivations and examples are drawn from diverse areas of study while end of chapter exercises encourage creative applications Based on nearly two decades of teaching at Harvard and Caltech this rigorous but concise text provides an essential foundation for understanding the methods used in quantitative biology Proven in the classroom Suitable for advanced undergraduate and graduate students across the biological sciences Offers accompanying online materials including code and solved exercises

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web 1  $3\text{NaBr} + \text{H}_3\text{PO}_4 + \text{Na}_3\text{PO}_4 + 3\text{HBr}$  type of reaction double displacement 2  $3\text{Ca} + 2\text{Al}_2\text{O}_3 + 3\text{CaSO}_4 + 2\text{Al} + \text{O}_2$  type of reaction double displacement 3  $3\text{Mg} + \text{Fe}_2\text{O}_3 \rightarrow 2\text{Fe} + 3\text{MgO}$  type of reaction single displacement 4  $\text{C}_2\text{H}_4 + 3\text{O}_2 \rightarrow 2\text{CO}_2 + 2\text{H}_2\text{O}$  type of reaction combustion 5  $2\text{PbSO}_4 + 2\text{PbSO}_3 + \text{O}_2$  type of reaction

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