

5<sup>th</sup>  
Edition

# Essential ORTHOPAEDICS

*(Including Clinical Methods)*

**MAHESHWARI & MHASKAR**



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**Knee & Shoulder Clinic**

New Delhi

# Maheshwari Orthopaedics

**Ravi Bhushan**



## **Maheshwari Orthopaedics:**

Essential Orthopaedics J Maheshwari, Vikram A Mhaskar, 2015-06-10 Annotation Presenting a practical approach to various common emergencies enhanced by sections on orthopaedic terminology and over 380 full colour images and illustrations this is an invaluable revision resource for undergraduate medical students *Passport for the Orthopedic Boards and FRCS Examination* Cyril Mauffrey, David J. Hak, 2015-03-05 This textbook is based on the curriculum for US UK Canadian and Australasian Orthopedic trainees It offers an in depth summary of the knowledge needed to pass the boards and FRCS examination in Trauma and Orthopedic surgery The focus is on basic information on every orthopedic subspecialty including surgical anatomy basic sciences adult reconstruction pediatric orthopedics foot and ankle surgery orthopedic pathology the spine sports surgery upper limb wrist and hand surgery and orthopedic traumas All sections are written by experts in the respective field and utilize a consistent bullet point format chosen to facilitate the learning experience and help readers memorize and organize knowledge A clear and concise take home message section precedes each topic and key references are highlighted at the end of each chapter *Essential Orthopaedics* J Maheshwari, Vikram A Mhaskar, 2019-02-28 1 Orthopaedic Trauma Introduction 2 Anatomy of Bone and Fracture Healing 3 Treatment of Fractures General Principles 4 Splints and Traction 5 Recent Advances in the Treatment of Fractures 6 Approach to a Patient with Limb Injury 7 Complications of Fractures 8 Injury to Joints Dislocation and Subluxation 9 Fractures in Children 10 Peripheral Nerve Injuries 11 Deformities and their Management 12 Treatment of Orthopaedic Disorders A General Review 13 Injuries Around the Shoulder Fracture Humerus 14 Injuries Around the Elbow 15 Injuries of the Forearm and Wrist 16 Hand Injuries 17 Pelvic Fractures 18 Injuries Around the Hip 19 Fracture Shaft of Femur 20 Injuries Around the Knee 21 Injuries to the Leg Ankle and Foot 22 Infections of Bones and Joints 23 Tuberculosis of Bones and Joints 24 Infections of the Hand 25 Congenital Talipes Equino Varus CTEV 26 Congenital Dislocation of the Hip and Other Malformations 27 Poliomyelitis and Other Neuromuscular Disorders 28 Bone Tumours 29 Prolapsed Intervertebral Disc 30 Approach to a Patient with Back Pain 31 Spinal Injuries 32 Traumatic Paraplegia 33 Scoliosis and Other Spinal Deformities 34 Arthritis and Related Diseases 35 Degenerative Disorders 36 Affections of the Soft Tissues 37 Metabolic Bone Diseases 38 Miscellaneous Affections of the Bone 39 Miscellaneous Regional Diseases 40 Amputations Prosthetics and Orthotics 41 Arthroscopic Surgery 42 Joint Replacement Surgery 43 Imaging Modalities in Orthopaedics Annexures Index *Essential Orthopaedics* Maheshwari, Mhaskar, 2022-03-31 1 Orthopaedic Trauma Introduction 2 Anatomy of Bone Fracture Healing 3 Treatment of Fractures General Principles 4 Splints and Traction 5 Recent Advances in the Treatment of Fractures 6 Approach to a Patient with Limb Injury 7 Complications of Fractures 8 Injury to Joints Dislocation and Subluxation 9 Fractures in Children 10 Peripheral Nerve Injuries 11 Deformities and Their Management 12 Treatment of Orthopaedic Disorders A General Review 13 Injuries Around the Shoulder Fracture Humerus 14 Injuries Around the Elbow 15 Injuries of the Forearm and

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**Orthopedic Surgical Pathology** Michel Forest,Bernard Tomeno,Daniel Vanel,1998 Here s authoritative guidance on the correct interpretation of histopathological specimens in orthopedic pathology Methods of diagnosis and treatment are integrated throughout with micrographs and radiographic images that illustrate tumors and tumor like lesions of the bones and joints With over 1670 illustrations over 1000 in color     *Quarterly Journal* Indian Chemical Society,1954     Reference India Ravi Bhushan,1995     *Universities Handbook* ,2014     **Hospital Medicine** ,2004     **Medical Sciences International Who's who** [Anonymus AC00585721],1992     Haemorrhoids and Herbs Mohd Yaseen,2003

The Top Books of the Year Maheshwari Orthopaedics The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous engrossing novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have enthralled audiences this year. Maheshwari Orthopaedics : Colleen Hoover "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Maheshwari Orthopaedics : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids captivating storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Maheshwari Orthopaedics : Delia Owens "Where the Crawdads Sing" This mesmerizing coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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web oxidation reduction redox reactions oxidation  $\text{Cu} + \text{S} + \text{Cu} + 2\text{A} + \text{Q} + 2\text{E}$  reduction  $\text{MnO}_4 + 4\text{A} + \text{Q} + 4\text{H} + \text{A} + \text{Q} + 3\text{E} + \text{MnO}_4 + 2\text{S} + 2\text{H} + 2\text{O}$  l when the half reactions listed above are combined into a balanced chemical equation the ratio of the coefficients  $\text{Cu} + \text{S} + \text{MnO}_4 + 4\text{A} + \text{Q}$  is

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web google classroom for the following redox equation  $\text{MnO}_4 + 4\text{A} + \text{AQ} + \text{SO}_2 + 2\text{G} + \text{Mn} + 2\text{AQ} + \text{HSO}_4 + 4\text{A} + \text{AQ}$  what will be the stoichiometric coefficient of  $\text{HSO}_4 + 4\text{A}$  if the above equation is balanced in an acidic medium stuck use a hint report a problem do 4 problems

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web balance this redox reaction by the half reaction method by assuming an acidic solution  $\text{Cr} + 2\text{O} + 7\text{H} + 2\text{Fe} + \text{Cr} + 3\text{Fe} + 3$  balance the redox reaction in exercise 9 by the half reaction method by assuming a basic solution

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web solution 1 the two half reactions balanced as if in acidic solution  $2\text{CN} + \text{Au} + \text{Au} + \text{CN} + 2\text{E} + 2\text{H} + \text{O}_2 + \text{H}_2\text{O}_2 + 2$  make electrons equal convert to basic solution  $4\text{CN} + 2\text{Au} + 2\text{Au} + \text{CN} + 2\text{E}$  multiplied by a factor of 2  $2\text{E} + 2\text{H}_2\text{O} + \text{O}_2 + \text{H}_2\text{O}_2 + 2\text{OH} + 3$  the final answer

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web aug 29 2023 the first step to balance any redox reaction is to separate the reaction into half reactions the substance being reduced will have electrons as reactants and the oxidized substance will have electrons as products usually all reactions are written as reduction reactions in half reaction tables

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the loss of electrons resulting in a more positively charged species reduction the gain of electrons resulting in a

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web a redox equation can be balanced using the following stepwise procedure 1 divide the equation into two half reactions 2 balance each half reaction for mass and charge 3 equalize the number of electrons transferred in each half reaction 4

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web the half equation method separates the oxidation and reduction of a redox reaction in half reactions overall scheme for the half reaction method step 1 split reaction into half reactions reduction and oxidation step 2 balance the charge or oxidation number with electrons step 3 balance ce o by adding ce h<sub>2</sub>o

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web when balancing equations for redox reactions occurring in basic solution it is often necessary to add oh ions or the oh h<sub>2</sub>o pair to fully balance the equation in this video we ll walk through this process for the reaction between clo and cr oh<sub>4</sub> in basic solution created by jay

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web bonus problem here is a balanced net ionic equation  $3\text{Br}_2 + 6\text{OH}^- \rightarrow 5\text{Br}^- + \text{BrO}_3^- + 3\text{H}_2\text{O}$  the above equation takes place in two stages first bromine reacts with oh ions to form bromide ions and bro ions second the bro ions react to form bromide ions and bromate v ions

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web we can balance it for charge by adding two electrons to the right side of the equation so that the net charge on each side is 0 oxidation  $\text{Ni} \rightarrow \text{Ni}^{2+} + 2\text{e}^-$  now that the oxidation half reaction is balanced it tells us that two electrons are produced for every atom of nickel oxidized but where do those electrons go

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web balancing redox reactions in acidic solution problems 1 10 problem 1  $\text{Cr}_2\text{O}_7^{2-} + \text{Fe}^{2+} + \text{Cr}^{3+} + \text{Fe}^{3+}$  solution 1 balanced half reactions  $6\text{e}^- + 14\text{H}^+ + \text{Cr}_2\text{O}_7^{2-} \rightarrow 2\text{Cr}^{3+} + 7\text{H}_2\text{O}$   $\text{Fe}^{2+} \rightarrow \text{Fe}^{3+} + \text{e}^-$  2 equalize the electrons  $6\text{e}^- + 14\text{H}^+ + \text{Cr}_2\text{O}_7^{2-} \rightarrow 2\text{Cr}^{3+} + 7\text{H}_2\text{O}$   $6\text{Fe}^{2+} \rightarrow 6\text{Fe}^{3+} + 6\text{e}^-$  multiplied by a factor of 6

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pair to fully balance the equation in this video we ll walk through this process for the reaction between dichromate  $\text{Cr}_2\text{O}_7^{2-}$  and chloride  $\text{Cl}^-$  ions in acidic solution created by jay

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web balance each half reaction in basic solution 4 5 6 7  $\text{Cr}_2\text{O}_7^{2-}$   $\text{NO}_3^-$   $\text{SO}_4^{2-}$   $\text{MnO}_2$   $\text{Cr}_3$   $\text{NO}_3$   $\text{SO}_2$   $\text{Mn}_2\text{O}_3$  balance each redox reaction in acid solution using the half reaction method 8  $\text{H}_2\text{O}_2$   $\text{Cr}_2\text{O}_7^{2-}$  2 9  $\text{TeO}_3$  2  $\text{N}_2\text{O}_4$   $\text{O}_2$   $\text{Cr}_3$   $\text{Te}$  10  $\text{ReO}_4$  11  $\text{PbO}_2$   $\text{IO}_2$   $\text{Pb}_2$  12  $\text{AsNO}_3$   $\text{IO}_3$   $\text{ReIO}_3$   $\text{H}_2\text{AsO}_4$

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web aug 29 2023 some points to remember when balancing redox reactions the equation is separated into two half equations one for oxidation and one for reduction the equation is balanced by adjusting coefficients and adding  $\text{H}^+$   $\text{OH}^-$  and  $\text{e}^-$  in this order balance the atoms in the equation apart from o and h

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web in the redox equation below that occurs in our stomach which of the following pairs identifies the reducing and oxidizing agents respectively  $\text{C}_6\text{H}_8\text{O}_6$   $2\text{H}_2\text{NO}_2$   $\text{C}_6\text{H}_6\text{O}_6$   $2\text{H}_2\text{O}_2$   $\text{NO}$  choose 1 answer  $\text{C}_6\text{H}_8\text{O}_6$  and  $\text{NO}_2$  a  $\text{C}_6\text{H}_8\text{O}_6$  and  $\text{NO}_2$  b  $\text{NO}_2$  and  $\text{C}_6\text{H}_8\text{O}_6$  c  $\text{C}_6\text{H}_8\text{O}_6$  and  $\text{H}_2\text{O}_2$  d  $\text{H}_2\text{O}_2$  and  $\text{C}_6\text{H}_8\text{O}_6$

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