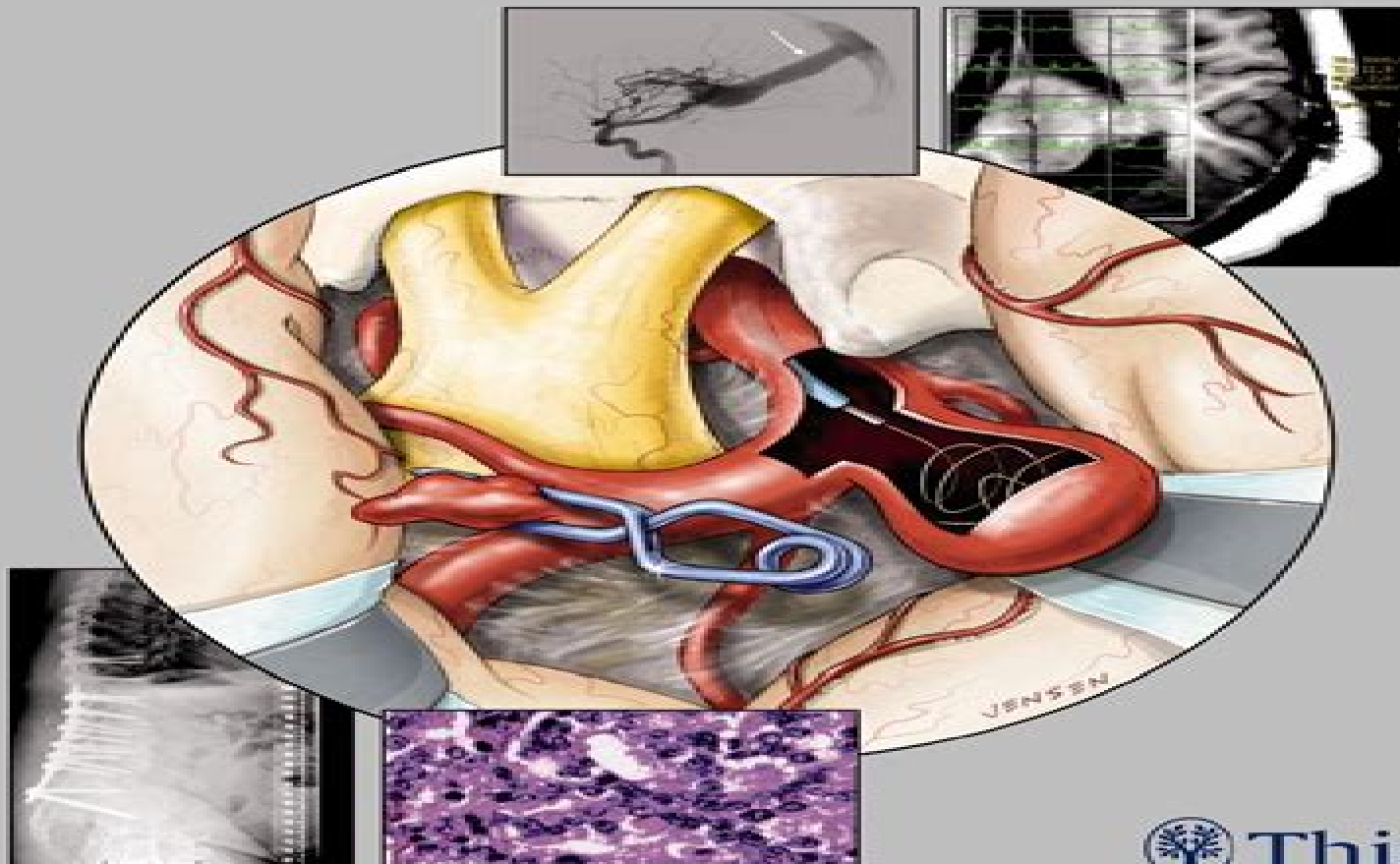


# Neurosurgery Board Review

Questions and Answers for Self-Assessment

Cargill H. Alleyne Jr.  
M. Neil Woodall  
Jonathan Stuart Citow

Third Edition



# Neurosurgery Board Review Questions

**Mark Shaya, Remi Nader, Anil Nanda**



## **Neurosurgery Board Review Questions:**

**Neurosurgery Board Review** Cargill H. Alleyne, M. Neil Woodall, Jonathan Stuart Citow, 2015-12-16 Designed to evaluate candidates expertise and provide direction for continued learning the American Board of Neurological Surgery ABNS primary written examination is a required step to attaining board certification in the U S The rigorous exam requires substantial preparation Each author brings unique qualifications to this publication from writing previous editions to achieving the second highest exam score in the U S to the insights of a current chief resident Their mission is to help readers comprehend the material and retain this knowledge rather than solely striving for the highest score This essential board prep review mirrors the exam s multiple choice format and seven sections neurosurgery clinical neurology neuroanatomy neurobiology neuropathology neuroradiology and clinical skills critical care Presented in a new and improved layout the third edition encompasses the numerous advances in neurosurgery since the 2004 edition was published New Key Features Expanded coverage of endovascular techniques for the treatment of cerebral aneurysms the latest advanced imaging technologies and treatment paradigm updates for acute ischemic stroke More than 1 000 questions with answers that include detailed insightful explanations High quality illustrations and superb anatomical dissections by Albert L Rhoton Jr MD and other masters This invaluable board review will help neurosurgical residents prepare thoroughly for the primary ABNS exam It is also beneficial for neuroscience residents specializing in neurology and neuropathology Neurosurgery Board Review Cargill H. Alleyne, 2016 Designed to evaluate candidates expertise and provide direction for continued learning the American Board of Neurological Surgery ABNS primary written examination is a required step to attaining board certification in the U S The rigorous exam requires substantial preparation Each author brings unique qualifications to this publication from writing previous editions to achieving the second highest exam score in the U S to the insights of a current chief resident Their mission is to help readers comprehend the material and retain this knowledge rather than solely striving for the highest score This essential board prep review mirrors the exam s multiple choice format and seven sections neurosurgery clinical neurology neuroanatomy neurobiology neuropathology neuroradiology and clinical skills critical care Presented in a new and improved layout the third edition encompasses the numerous advances in neurosurgery since the 2004 edition was published New Key Features Expanded coverage of endovascular techniques for the treatment of cerebral aneurysms the latest advanced imaging technologies and treatment paradigm updates for acute ischemic stroke More than 1 000 questions with answers that include detailed insightful explanations High quality illustrations and superb anatomical dissections by Albert L Rhoton Jr MD and other masters This invaluable board review will help neurosurgical residents prepare thoroughly for the primary ABNS exam It is also beneficial for neuroscience residents specializing in neurology and neuropathology

**Neurosurgery Primary Board Review** Ross C. Puffer, 2018 A unique study guide for passing the American Board of Neurological Surgery primary examination The ABNS primary examination is an important step in the certification process

designed to evaluate candidates knowledge and provide direction for continued learning It requires many months of preparation and passing it is a significant accomplishment integral to becoming board certified Neurosurgery Primary Board Review by Ross Puffer presents an upto date question bank designed to prepare neurosurgeons for the ABNS written examination The comprehensive question bank encompasses the seven sections on the neurosurgery primary examination neuroanatomy neurosciences neuropathology neuroimaging clinical neurology neurosurgery critical care fundamental clinical skills and core competencies The question bank consists of more than 1 500 multidisciplinary questions with answers 600 of which are featured in the book The remaining questions links to cited references and a comprehensive 375 question standalone exam are posted on MedOne Neurosurgery Thieme s outstanding online collection of neurosurgical content The multiple choice format and question categories replicate the ABNS exam format priming residents and neurosurgeons for taking the exam Key Highlights Online access to questions enables rapid review in a format conducive to studying for and aching the ABNS written exam A subscription to Thieme s MedOne Neurosurgery provides links to additional in depth neurosurgical content enhancing knowledge acquisition and retention Every multiple choice question includes an explanatory answer for quick reference The single correct answer based 375 question practice exam available online provides a stellar test run by simulating timing and test fatigue This superb resource is a must have for every neurosurgical resident and neurosurgeon preparing to take the ABNS primary exam It will also benefit neurosurgeons prepping for maintenance of certification exams

Neurosurgery Practice Questions and Answers Mark Shaya,Remi Nader,2011-01-01 Neurosurgery Practice Questions and Answers will test your knowledge of the important topics appearing in the neurosurgery board exam The questions cover bread and butter neurosurgery as well as the molecular basis of neurologic disease and critical care concerns Explanations for each answer help you review key concepts Highlights Mirrors the multiple choice question format of the board exam Organizes questions randomly not by topic to simulate the board exam Features questions that require interpretation of more than 100 radiologic images and intraoperative photographs Residents preparing for the neurosurgery board exam as well as established neurosurgeons preparing for certification exams will welcome this text for study practice and review

**Intensive Neurosurgery Board Review** Thomas G. Psarros,Shawn P. Moore,2006 An essential review for residents across neurological disciplines the chapters are organized into groups of questions covering neurobiology neuroanatomy clinical neurology neuropathology neuroradiology neurosurgery and critical care Written and edited by neurosurgery residents who have passed the boards the book works as an effective stand alone review book or used in conjunction with The Definitive Neurological Surgery Board Review Featuring hundreds of high quality figures as well as high yield tables this essential review book concludes with a 300 question multidisciplinary self assessment examination

BOOK JACKET The Comprehensive Neurosurgery Board Preparation Book Paul V. Birinyi,Najib E. El Tecle,Eric Marvin,2016-09-21 Board certification by the American Board of Neurological Surgery is considered the gold standard for

neurosurgeons practicing in the U S The ABNS primary examination requires many months of preparation and passing it is both a significant accomplishment and integral component in becoming board certified Contributions from current neurosurgical residents and seasoned practitioners infuse this book with a well rounded perspective Having been there and done that the authors incorporated what they felt was missing from board review books when they sat for the exam resulting in a bucket list study guide The review is organized by neurosurgical topic with 20 chapters equally divided among questions followed by answers Starting with physiology and anatomy each chapter methodically covers core topics including radiology neurology pathology histology ophthalmology and more The authors provide brief explanations and pearls that accompany each question which provide a solid springboard for delving deeper into any given topic The easy to follow format enables residents to partake in long study sessions or tackle just a question or two in the midst of a busy day of neurosurgical service

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**Neurosurgery Board Review** Cargill H. Alleyne, M. Neil Woodall, Jonathan Stewart Citow, 2015-12-02 Designed to evaluate candidates expertise and provide direction for continued learning the American Board of Neurological Surgery ABNS primary written examination is a required step to attaining board certification in the U S The rigorous exam requires substantial preparation Each author brings unique qualifications to this publication from writing previous editions to achieving the second highest exam score in the U S to the insights of a current chief resident Their mission is to help readers comprehend the material and retain this knowledge rather than solely striving for the highest score This essential board prep review mirrors the exam s multiple choice format and seven sections neurosurgery clinical neurology neuroanatomy neurobiology neuropathology neuroradiology and clinical skills critical care Presented in a new and improved layout the third edition encompasses the numerous advances in neurosurgery since the 2004 edition was published

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**Pediatric Neurosurgery Board Review** Nir Shimony, George Jallo, 2023-05-06 This specialized textbook will be dedicated to the various disease topics of pediatric neurosurgery and management strategies The text will cover the

different aspects of the field of pediatric neurosurgery in a unique way by giving state of the art up to date synopsis with references to recent publications More specifically the whole book is dedicated to a comprehensive discussion of brainstem tumors and other lesions It will be composed of 20 chapters The various chapters will start from updates regarding the development of the nervous system and the clinical differences in assessing the infant or a child in comparison to the adult patient The book then will focus on various pathologies starting with hydrocephalus pediatric brain and spine tumors congenital malformation spasticity epilepsy and more The proposed textbook will be enriched with diagnostic and surgical images and illustrations that cover all types of pediatric neurosurgery pathologies with an emphasis on evidence based data that reflects the controversies and possible solutions The main structure of each chapter will include a short synopsis of the topic at hand questions and answers that will inspire the reader for better understanding learning objectives and key references for further reading Written by experts in the field Pediatric Neurosurgery Board Review serves as a valuable resource for neurosurgery residents and fellows studying for their neurosurgery exams as well as an educational material for neurosurgery specialists after graduation by discussing pediatric neurosurgery in more convenient way to review and understand key information in this field *The Definitive Neurological Surgery Board Review* Shawn P. Moore, 2005 The Definitive Neurological Surgery Board Review provides a single source for content typically encountered on the neurosurgery boards eliminating lengthy searching by combining all the information necessary to pass the ABNS written examination into one succinct resource An essential review for residents across neurological disciplines this book offers concise yet comprehensive coverage of neurosurgery neuroanatomy neuropathology neuroradiology clinical neurology neurobiology and critical care The key to successful board preparation this book is the perfect timesaving solution for busy neurosurgery residents and an essential companion throughout residency Be thoroughly prepared with The Definitive Neurological Surgery Board Review

**Surviving Neurosurgery** Nitin Agarwal, Vamsi Reddy, 2022-02-08 Surviving Neurosurgery Vignettes of Resilience is a practical guide to the inner workings of the lives of neurosurgeons healthcare partners and patients To this end this text serves as a first hand documentary of the unique challenges faced as one progresses through their career It is a snapshot in time capturing the experiences of both patients and providers The text is divided into seven parts that run the gamut of a neurosurgeon's career symbolic of the seven years of neurosurgical training These narratives include but are not limited to residency challenges surgical nuances research and funding embracing humanity patient experiences and overcoming hurdles along the journey Chapters share the wisdom and experiences of over 100 authors consisting of patients trainees advanced practice providers and attending neurosurgeons

[Goodman's Neurosurgery Oral Board Review 2nd Edition](#) Allan D. Levi, 2020 Goodman's Neurosurgery Oral Board Review educates and prepares neurosurgery candidates who are studying for the Neurosurgery Oral Board exam the final step prior to board certification It also serves as a primer for the Goodman oral board course a bi annual course sponsored by the AANS This new second edition has been updated for this

new edition to reflect the most recent post 2017 style board *Neurosurgery Case Review: Questions and Answers* Remi Nader,Abdulrahman J. Sabbagh,Samer K. Elbabaa,2020-01-30 Neurosurgical vignettes in question and answer format provide robust prep for the ABNS oral exam *Neurosurgery Case Review Questions and Answers 2nd Edition* by Remi Nader Abdulrahman Sabbagh Samer Elbabaa Hosam Al Jehani Jaime Gasco and Cristian Gragnaniello provides a robust study guide for the American Board Neurological Surgery and the Royal College of Physicians and Surgeons of Canada oral board examinations The second edition expands on the highly successful first edition presenting 148 cases commonly encountered by neurosurgeons in clinical practice The cases are broadly divided into seven sections tumor vascular intracranial pathology trauma pediatric functional spine and peripheral nerves The chapters are arranged in a manner that mirrors the oral board exam Each case includes a brief clinical scenario followed by questions on presentation diagnosis imaging management surgical detail complications and outcome The presented information is backed by the latest available evidence based references and data Key Features Contributions from internationally renowned neurosurgical educators Detailed answers enhance readers knowledge and provide guidance on how to respond to questions asked in the oral board exams More than 750 high quality images many in full color ensure visual understanding of key concepts Suggested readings at the end of cases offer additional study resources This is an indispensable one stop resource for neurosurgical residents and fellows prepping for the ABNS and Royal College oral board examinations Neurosurgeons studying for recertification will also find this book an invaluable reference for rapid review

**Top Score for the Neurosurgery Board Examination** Shehzad Safdar Tarar,Zubair Ahmed Khan,Mubashir Malik,Syed Asad Ur Rehman Omer,Memoona Ejaz,2024-09-25 An essential high yield resource to prep for neurosurgery board examinations *Top Score for the Neurosurgery Board Examination Questions and Answers* by Drs Shehzad Safdar Tarar Zubair Ahmad Khan Mubashir Malik Syed Asad Ur Rehman Omer and Memoona Ejaz covers Greenberg s Handbook of Neurosurgery in chapter wise fashion Organized in 22 parts and 116 chapters this study prep starts with anatomy and physiology and concludes with procedures interventions operations More than 2 000 multiple choice questions with answer keys provide a reader friendly resource that enhances acquisition and retention of the vast insights and knowledge contained in Greenberg s Handbook of Neurosurgery Key Features High yield questions reflect content covered in board exams Mirrors Greenberg s succinct chapter organization format providing a rapid review Classifications and tables help assess core knowledge and enhance understanding This is an indispensable resource for all neurosurgery board and international postgraduate exit examinations globally Neurosurgeons studying for maintenance of certification will also benefit from consulting this practical study companion

**Neurosurgery Practice Questions and Answers** Mark Shaya,Remi Nader,Anil Nanda,2005 *Neurosurgery Practice Questions and Answers* will test your knowledge of the important topics appearing in the neurosurgery board exam The questions cover bread and butter neurosurgery as well as the molecular basis of neurologic disease and critical care concerns Explanations for each answer help you review

key concepts Highlights Mirrors the multiple choice question format of the board exam Organizes questions randomly not by topic to simulate the board exam Features questions that require interpretation of more than 100 radiologic images and intraoperative photographs Residents preparing for the neurosurgery board exam as well as established neurosurgeons preparing for certification exams will welcome this text for study practice and review **2nd Ed. Colen Flash-Review: Neurosurgery -Vol 1 & 2 , Neurosurgery Oral Board Review** Jonathan Stuart Citow,Robert J. Spinner,Ross C. Puffer,2019-07-29 The perfect white coat study companion for acing the ABNS oral boards The certification by the American Board of Neurological Surgery is considered as the gold standard for neurosurgeons The final hurdle in accomplishing the certification process is the challenging oral examination In 2017 the format of the ABNS oral exam was revised to make it more relevant rigorous and reflective of recent advances in neurosurgery Therefore in the third edition of Neurosurgery Oral Board Review the authors have expanded on the widely acclaimed prior editions The user friendly book is packed with all the essentials that are needed to prepare for the exam It can be used either for a rapid review a few days prior to the exam or as an outline to organize study preparation Each chapter starts with a collection of salient facts followed by cases that simulate the actual oral board experience Key Highlights Eighty entirely new first rate cases supplemented by a large number of images In depth focus on the current state of the art in neurosurgery including endovascular and functional approaches minimally invasive brain and spine procedures arthrodesis etc More than 300 outstanding anatomic drawings and radiographs to enhance the ability to visualize complex concepts Complications and emergency procedures discussed in greater detail This quintessential pocket sized oral board review has earned its place as a trusted study companion in the past 15 years The new and improved edition will continue to play an invaluable role for neurosurgeons prepping for this challenging final stage of ABNS certification Comprehensive Neurosurgery Board Review Jonathan Stuart Citow,R. Loch Macdonald,Daniel Refai,2011-01-01 Praise for the previous edition An excellent review for the written neurosurgical boards recommended to all neurosurgery residents Journal of NeurosurgeryThe second edition of Comprehensive Neurosurgery Board Review contains all the information you need to prepare for the American Board of Neurological Surgery ABNS written examination Authored by a team of expert clinicians and neurosurgery trainees who earned top scores on their exams this edition distills the current knowledge of the neurosciences and essential information for clinical practice Six chapters provide comprehensive coverage of core concepts in anatomy physiology pathology radiology neurology neurosurgery and critical care Features of the second edition Concise descriptions aid rapid review of key concepts Bullet point format enhances ease of use and facilitates comprehension Up to date coverage of classic symptoms and signs of common neurosurgical diseases Current information related to the genetic basis of neurosurgical conditions 450 high quality illustrations and images typical of those appearing on exams This superb review is an indispensable resource for neurosurgical residents preparing for the ABNS certification exam It is also ideal for clinicians seeking a refresher or for those preparing for recertification exams

**Neurosurgery Case Review** Remi Nader,Abdulrahman J Sabbagh,2011-01-01 An ideal resource for board exam preparation this review distills the essentials of neurosurgery in a user friendly question and answer format Divided into three main sections this text presents a comprehensive collection of cases covering intracranial pathology spinal and peripheral nerve pathology and neurology Each chapter opens by detailing the clinical presentation of a problem frequently encountered in everyday practice followed by a list of questions and answers designed to test the reader s knowledge of diagnostic techniques imaging surgical indications treatment options potential complications and outcomes Highlights Contributions from internationally recognized authorities in the main subspecialties of neurosurgery including neurosurgical oncology skull base surgery vascular neurosurgery spine surgery pediatric neurosurgery peripheral nerve surgery and epilepsy surgery Succinct bullet point format and consistent presentation in each chapter for rapid review of essential concepts Detailed coverage of common and rare neurologic pathologies More than 380 high quality images including 76 full color illustrations that demonstrate important concepts Valuable references to current evidence based scientific data This book is an indispensable tool for neurosurgeons residents and fellows preparing for their oral board or recertification examinations With its highly accessible presentation this book will also be a valuable refresher for clinicians and a useful reference for students preparing for rounds      Colen FlashReview: Neurosurgery Board Review- PakPal: Neurobiology ,  
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for the nitration 4.01 ml of nitric acid 4.00 ml of sulfuric acid and 4.56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4.56 ml of bromobenzene was used the amount of product predicted to be recovered was 8.7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction e.g. particularly nitration of methyl benzoate to give methyl m-nitrobenzoate thus determine the weight, melting point and percentage yield of the pure methyl m-nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene. Bromine substituted on an aromatic ring is an ortho/para directing group; it will direct an incoming electrophile to the ortho and para positions. It is also deactivating, meaning that its reactions will be slower than the identical reactions of benzene.

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section 20711 lab experiment nitration of bromobenzene introduction: the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule. Nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid. This mixture is useful to obtain the active nitronium ion.

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1. go to the restroom and wash the affected area with lots of soap and water. The soap in the lab is not suitable for this purpose.  
2. return to the lab and apply mineral oil to the affected area.  
3. the summary to this warning is not to touch any part of your body while performing this experiment. If you must leave the lab for any reason.

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another. Nitric acid, the weaker of the two acids, will serve as base to form nitronium ion. Bromobenzene will attack the nitronium ion by nucleophilic attack.

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show more this experiment was performed in order to demonstrate the principles of nitration through electrophilic aromatic substitution it also examined the effects of bromine on an aromatic ring ortho para vs meso directing

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then actual is your actual findings yield actual theoretical  $\times 100$  what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely because bromine is an ortho para director

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the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area theory and explanation of the nitration of bromobenzene if the temperature of the reaction mixture exceeds 60 °C

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1-bromo-4-nitrobenzene

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study with quizlet and memorize flashcards containing terms like reacting sulfuric and nitric acid together produces the nitronium ion alone nitric acid is not a strong enough electrophile to react with bromobenzene sulfuric acid is added to the nitric acid the reverse rxn can overheat and boil easily includes a claisen adaptor and

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture  $\text{HNO}_3$  3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0.6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accommodate their electrons demonstration of creating the p arenium cation by nitration of bromobenzene

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nitrobromobenzene recrystallization was used to purify 4 nitrobromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion  $\text{NO}_2^+$  which acts as the electrophilic species

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nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4 0ml of nitric acid and 4 0ml of sulfuric acid and will then react with 4 5ml of bromobenzene this will produce o bromonitrobenzene and p bromonitrobenzene

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chem 2261 lab 5 nitration of bromobenzene introduction an electrophilic aromatic substitution reaction is an important process that allows for intermediate chemical structures to be used as precursors to pharmaceuticals and other industrially produced chemicals by adding different functional groups into an aromatic ring

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lab report 10 nitration of bromobenzene raekwon filmore cm 244 section 40 march 27 2018 introduction for this experiment nitration of bromobenzene was the focus of the lab the benzene is an aromatic compound and when it reacts with wither a mixture of sulfuric acid or nitric acid creates what is known as a nitro group

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