

Free pdf Gamma knife neurosurgery (Read Only)

Gamma Knife Neurosurgery Gamma Knife Neurosurgery in the Management of Intracranial Disorders II Gamma Knife Neurosurgery in the Management of Intracranial Disorders Recent Advances and Controversies in Gamma Knife Neurosurgery The History of the Gamma Knife Gamma Knife Brain Surgery Gamma Knife Surgery Gamma Knife Radiosurgery Japanese Experience with Gamma Knife Radiosurgery Gamma Knife Surgery LINAC and Gamma Knife Radiosurgery Intracranial Stereotactic Radiosurgery Gamma Knife Radiosurgery Intracranial Stereotactic Radiosurgery Leksell Radiosurgery Gamma Knife Radiosurgery for Brain Vascular Malformations Principles and Practice of Stereotactic Radiosurgery LINAC and Gamma Knife Radiosurgery Principles and Practice of Stereotactic Radiosurgery Advances in Epilepsy Surgery and Radiosurgery Gamma Knife Surgery Linac Radiosurgery Textbook of Stereotactic and Functional Neurosurgery The Role of the Gamma Knife in Neurosurgery Radiosurgery and Pathological Fundamentals Advances in Radiosurgery Gamma Knife Surgery Advances and Technical Standards in Neurosurgery Advances and Technical Standards in Neurosurgery Intracranial Stereotactic Radiosurgery, An Issue of Neurosurgery Clinics Practical Handbook of Neurosurgery Radiosurgical Planning Stereotactic Radiosurgery Radiosurgery Advances and Technical Standards in Neurosurgery Controversies in Stereotactic Radiosurgery Handbook of Stereotactic and Functional Neurosurgery Current Techniques in Neurosurgery Proceedings of the 1992 Meeting of the Leksell Gamma Knife Society, Buenos Aires, Argentina, March 7-9, 1992 Neurosurgery and Global Health

Gamma Knife Neurosurgery 2010-09-08 today over 500 000 patients have been treated world wide in 250 gamma knife centres in 37 countries each one treating between 150 and 700 patients a year the current book serves as a textbook training manual and reference book for those involved in gamma knife practice covering the theoretical background the practical aspects of treatment the social side of the method and necessary information not only for users but for those who refer to the gamma knife it also covers some aspects of the hospital and social administration required for optimal use of the technology also looking at the effect of the internet on specialist medical practice it also presents the completely new gamma knife perfexion a new technology which extends the range of the gamma knife and will be the treatment standard for the future

Gamma Knife Neurosurgery in the Management of Intracranial Disorders II 2021-07-24 the articles in this volume cover the various radiosurgical techniques used to treat benign and malignant intracranial tumors cavernous malformations and functional disorders as well as a wide array of specific details on medical physics neuroimaging and anesthetic support particular emphasis is put on the optimal combination of microneurosurgery and radiosurgery for attaining the best functional results in patients with vestibular schwannomas craniopharyngiomas and pituitary adenomas and on the most effective methods of treatment planning and radiation dosimetry in cases of metastatic brain tumors the highlighted clinical aspects include indications for radiosurgery and the prediction of patients prognosis along with analysis of outcomes in comparison with results achieved by other modalities in the context of multifaceted therapeutic strategies in addition possible options for applying advanced treatment using such modern devices as leksell gamma knife perfexiontm and iconm are presented in depth this information will interest both radiosurgical practitioners and neurosurgeons and help them to provide optimal care and to achieve the greatest benefit of their patients this book will serve as an excellent companion for the previous publication gamma knife neurosurgery in the management of intracranial disorders acta neurochirurgica supplement volume 116 springer 2013

Gamma Knife Neurosurgery in the Management of Intracranial Disorders 2013-02-15 the articles in this volume cover the various options of the optimal management of brain tumors vascular lesions and functional disorders they provide a good balance between microneurosurgery and radiosurgery presenting also alternative surgical and radiosurgical treatment options with discussions on their advantages and disadvantages the presentation of multiple treatment methods will help to provide better service to patients some papers specifically highlighting alternative treatment options are accompanied by editorials prepared by recognized experts in the field additional emphasis is put on importance of the advanced neuroimaging techniques for radiosurgical treatment planning and subsequent follow up

Recent Advances and Controversies in Gamma Knife Neurosurgery 2022-01-22 recent advances and controversies in gamma knife neurosurgery volume 268 the latest release in the progress in brain research series highlights new advances in the field with this new volume presenting interesting chapters on the latest in dosimetry radiobiology evolving gamma knife technology imaging arteriovenous malformations dural a v fistulae cavernous malformations vestibular schwannoma other schwannoma meningiomas pituitary adenomas craniopharyngiomas metastases glioma low grade glioma high grade glomus tumors less common tumors orbital indications trigeminal neuralgia epilepsy movement psychosurgery and future trends provides the authority and expertise of leading contributors from an international board of authors presents the latest release in progress in brain research serials updated release includes the latest information on recent advances and controversies in gamma knife neurosurgery

The History of the Gamma Knife 2014-10-30 the history of the gamma knife presents the evolution of concepts and technology which ended in the production of the modern gamma knife the story starts before the second world war and links pioneers in berkeley and sweden to the best of the author s belief it is the first detailed factually accurate account of the development of this important therapeutic method the author has been involved in gamma knife surgery since the early days and has written 3 books and many papers on the topic the author is fluent in scandinavian languages and knows the original pioneers in the field and has consulted with them to ensure the story is accurate the book is written in an informal easy to read style the book fills a vacuum in the literature there are many short accounts of a few pages but no hopefully definitive account of the story of the gamma knife also these short accounts all too often contain errors which hopefully are absent from the current text

Gamma Knife Brain Surgery 1998-01-01 the book is compact and well presented and can certainly be recommended for the departmental library

Gamma Knife Surgery 2012-12-06 this book attempts to combine many different threads into a comprehensible whole since the subject is the gamma knife and the author is a neurosurgeon the field of clinical interest is restricted to intracranial pathology the discipline of radiosurgery now applies to patients who may reasonably be referred by internists neurologists otolaryngologists endocrinologists and several others some of the topics touched upon such as stereotaxy and the construction of a radio surgical instrument are unfamiliar to the majority of medical men other topics such as those pertaining to the reactions between radiation and living tissue are not exactly unfamiliar and yet for most of us they are not comfortable areas of expertise in that we have some basic knowledge but not enough to draw conclusions and interpret in particular it is not easy to answer the very sensible questions that patients ask when being considered for this particular form of treatment the author has attempted to describe the basic relevant phenomenology in terms that should be readily understandable to a non specialist physician to do this he has been heavily dependent on the expertise of a number of mathematically sophisticated collaborators who have checked his manuscript they are named in the acknowledgments section the relevance of the different sections of this book will naturally be assessed differently according to the experience and interest of the reader to simplify access to the information that is required the book is divided into three main sections

Gamma Knife Radiosurgery 2012-12-06 gamma knife radiosurgery has grown continually in importance in recent years however there was a lack of established clinical and physical quality standards and a good knowledge of the possibilities of radiosurgical treatment for brain lesions this book fills the gap by giving an overview of the current status of european gamma knife radiosurgery leading european experts report on their specialities in this field which is a state of the art summary of the possibilities and results of their current work the book encompasses all important as well as the more rare indications all relevant technical and clinical quality standards are addressed tailored planning strategies are described for different indications all professionals who care for patients with neurosurgical disease such as neurosurgeons radiosurgeons radiologists radiation oncologists and neurologists will find the book highly useful for the management of patients with benign and malignant brain lesions in a multidisciplinary setting

Japanese Experience with Gamma Knife Radiosurgery 2009-01-01 this publication provides an excellent overview of japan s 20 year experience with stereotactic radiosurgery using the leksell gamma knife leading experts discuss their long term results with gamma knife radiosurgery studies focusing on dose selection for optimal treatment results and avoidance of complications are also presented in addition gamma knife treatments of extracranial pathologies are reviewed

Gamma Knife Surgery 2012-12-06 radiosurgery has become an established technique with more than 15000 patients treated world wide most of them in the last five years yet there is much uncertainty in the general medical community as to the nature advantages and limitations of the method this uncertainty provokes unnecessary debate between colleagues and is a source of avoidable stress to patients this book provides an account of the scientific basis of radiosurgery and describes its current applications in respect of the only well established radiosurgical device the leksell gamma knife the book assumes the general medical knowledge of a newly qualified medical practitioner there are three sections the first outlines the rationale for radiosurgery and the principles of stereotaxy radiophysics and radiobiology the middle section consisting of a single chapter describes what a potential patient may expect to experience in the final section the current applications are gone through one by one indicating what can and what cannot be achieved the book is intended for neurologists neurosurgeons internists otolaryngologists oncologists ophthalmologists general practitioners medical students and anyone else who might wish to refer a patient to or advise a patient about gamma knife radiosurgery

LINAC and Gamma Knife Radiosurgery 2000 linac and gamma knife radiosurgery is the first book on radiosurgery which presents together both gamma knife and linear accelerator linac radiosurgical techniques for various pathologies divided into three sections linac and gamma knife radiosurgery addresses the fundamentals of stereotactic radiosurgery including historical perspectives basic principles of radiation physics and biology principles and techniques of gamma knife and linac radiosurgery software and dose planning fractionation proton beam radiation therapy clinical and histological aspects of radionecrosis and informed consent issues the clinical applications and results of both gamma knife and linac radiosurgery for vascular malformations brain metastases primary brain tumors meningiomas schwannomas and pituitary tumors work in progress clinical applications for pain epilepsy and movement disorders and future directions and new frontiers in radiosurgery linac and gamma knife radiosurgery provides the reader with the hands on experience of neurosurgeons and a comprehensive description of radiosurgery distributed by thieme for the american association of neurological surgeons

Intracranial Stereotactic Radiosurgery 2015-09-11 this second edition is written by renowned experts in neurosurgery neurology physics and radiation oncology many of whom are pioneers of radiosurgery throughout more than 30 detailed chapters the authors share their vast expertise on this highly precise minimally invasive form of radiation therapy the first few chapters lay a foundation for understanding the differentiations in types of srs technology leksell gamma knife novalis linac and proton beam radiosurgery and cyberknife followed by an explanation on the physics and radiobiology of srs the remaining chapters provide a detailed discussion of all pathologies and disorders currently treated highlights radiosurgical procedures for a wide range of intracranial conditions diseases including arteriovenous malformations meningiomas pituitary adenomas trigeminal neuralgia obsessive compulsive disorder epilepsy ocular disorders pediatric brain tumors and gliomas important updates on skull base tumors functional disorders and brain metastases evidence based findings covering indications patient selection benefits limitations outcomes potential complications and alternative treatment modalities this updated reference tool is an invaluable comprehensive guide to current concepts in srs it is a must have resource for neurosurgeons radiation oncologists neuro radiologists and medical physicists from residents to advanced clinicians

Gamma Knife Radiosurgery 2011-12-16 gamma knife radiosurgery is a minimally invasive treatment alternative for intracranial disorders including tumors vascular malformations facial pain and epilepsy this book will allow the reader to learn when gamma knife radiosurgery is appropriate and what to expect as treatment results

Intracranial Stereotactic Radiosurgery 2009 written by recognized experts in the fields of neurologic surgery neurology physics and radiation oncology this book is a comprehensive reference for current techniques for radiosurgery of the brain it provides detailed discussion of radiosurgical procedures for various disease entities

Leksell Radiosurgery 2019-05-20 since its introduction 52 years ago leksell radiosurgery has become a widely applied technique for the management of a diverse group of vascular neoplastic and functional disorders this publication presents an update on state of the art radiosurgery technology including outcomes by the pioneers in the field experts have contributed chapters on various topics they provide a history of the development of leksell gamma knife and its evolution from frame based to the inclusion of mask based radiosurgery in the latest gamma knife model for beginners there is valuable information related to imaging quality assurance patient care anesthesia and regulatory requirements advance users will appreciate the summary of the long term outcome of important indications additional chapters on cavernous malformation orbital uveal and ocular disorders clarify the role of radiosurgery this book is a concise overview for physicians interested in radiosurgery it will be of great value to neurosurgeons radiation oncologists and medical physicists concerned with learning about the indications of radiosurgery

Gamma Knife Radiosurgery for Brain Vascular Malformations 2013 an excellent summary of more than 30 years of accumulated experience clinical outcomes of brain vascular malformation have been greatly improved by advances in microsurgery endovascular techniques and stereotactic radiosurgery radiosurgery has proven to be the least invasive technique and is associated with documented long term success the papers in this volume present the experience of leading brain vascular malformation specialists who describe the outcome of radiosurgery for arteriovenous malformations cavernous malformations and dural arteriovenous fistulas these reviews expand the knowledge of the role of stereotactic radiosurgery alone or in combination with other treatment modalities evidence based guidelines are included in each section to provide a summary of the current management strategies this unique publication includes additional data that will further define the long term benefit and risks of radiosurgery for these often complex vascular disorders and makes valuable reading for neurosurgeons neurologists and endovascular specialists interested in an excellent summary of more than 30 years of accumulated experience in the management of brain vascular malformations

Principles and Practice of Stereotactic Radiosurgery 2015-01-05 principles and practice of stereotactic radiosurgery second edition serves as the definitive reference textbook for srs practitioners it provides a theoretical basis for the use of therapeutic radiation including imaging techniques and radiobiology the bulk of the textbook contains chapters that are comprehensive in scope on all diseases that are treated by srs lastly it addresses administrative and technical aspects of running an srs unit each chapter provides an expansive treatment of the subject with emphasis placed on the technical aspects of srs so that practitioners in this field can use it as a daily reference written by noted experts in the field principles and practice of stereotactic radiosurgery second edition is the only reference needed for neurosurgeons radiation oncologists and medical physicists at all levels of training and practice who are interested in srs

LINAC and Gamma Knife Radiosurgery 2000 this is the first contemporary comprehensive reference for neurosurgeons and radiation oncologists using gamma knife and linear accelerator technology each chapter includes specific case presentations representative of the most commonly treated conditions including applications for spinal disorders chapters conclude with counterpoint experiences oriented to treatment options other than radiosurgery these counterpoint discussions are written by noted

experts and address in greater detail the indications results and complications of their approach and enable readers to improve decision making with regard to their own patients

Principles and Practice of Stereotactic Radiosurgery 2010-05-05 washington d c and at the columbia university new york in 1967 and 1968 he worked as a general surgeon at the 1st surgical department of the vienna medical school with professor fuchsig at the max planck institute in munich he worked in the years 1968 to 1969 as a neuropathologist in the year 1969 till 1972 back at the department of neurosurgery in vienna he served as a general neurosurgeon and one of his main goals was pediatric neurosurgery in august 1972 he moved to kiel to work with professor jensen at the neurosurgical university hospital he had to graduate one more time in germany and he did this with ultrasound tomography in neurosurgery together with the department of pediatrics he started to build the pediatric neurosurgical department at this time he started his research on pineal midbrain and brainstem surgery in september 1976 he started at the ostsee clinic damp in schleswig holstein to build a neurosurgical department that opened its gates on 1977 and he became the first chairman on september 30th 2002 professor gerhard pendl april 1 1978 he went back to vienna as the vice m d retires from his chairmanship at the department chairman of the department of neurosurgery at the of neurosurgery at the university hospital in graz university hospital in vienna under professor koos shortly after his birth on july 10 1934 in linz and in 1980 he got his ph d

Advances in Epilepsy Surgery and Radiosurgery 2012-12-06 radiosurgery has become an established technique with more than 15000 patients treated world wide most of them in the last five years yet there is much uncertainty in the general medical community as to the nature advantages and limitations of the method this uncertainty provokes unnecessary debate between colleagues and is a source of avoidable stress to patients this book provides an account of the scientific basis of radiosurgery and describes its current applications in respect of the only well established radiosurgical device the leksell gamma knife the book assumes the general medical knowledge of a newly qualified medical practitioner there are three sections the first outlines the rationale for radiosurgery and the principles of stereotaxy radiophysics and radiobiology the middle section consisting of a single chapter describes what a potential patient may expect to experience in the final section the current applications are gone through one by one indicating what can and what cannot be achieved the book is intended for neurologists neurosurgeons internists otolaryngologists oncologists ophthalmologists general practitioners medical students and anyone else who might wish to refer a patient to or advise a patient about gamma knife radiosurgery

Gamma Knife Surgery 1993 designed as a practical guide to linac radiosurgery the book addresses the pertinent aspects of stereotactic treatment delivery in recent years there has been a massive increase in the use of this method rather than gamma knife or particle beam technology and this book provides a hands on guide to the methods and treatment delivery implemented by leading authorities at the university of florida

Linac Radiosurgery 2012-12-06 this book covers stereotactic principles as well as functional stereotaxis covering the history and uses of the techniques treatments for specific conditions and future developments includes a dvd demonstrating surgical procedures

Textbook of Stereotactic and Functional Neurosurgery 2009-06-22 because of the huge clinical experience that has been accumulated in radiosurgery it seems timely to explore and process out systematically pathological fundamentals on the effect of focused irradiation the better understanding of radiobiology will enhance the outcomes of radiosurgical procedures renowned experts

from all over the world discuss the baselines of pathology and radiobiology medical physical principles dose prescription guidelines current radiosurgical techniques advanced computer technology and recent imaging methods in radiosurgery in this unique volume the most pioneering feature is the parallel discussion of clinical radiosurgical results with fundamental pathological findings following high dose focused irradiation topics range from benign and malignant brain tumors vascular malformations functional disorders ocular and spinal radiosurgery interstitial brachytherapy to experimental efforts this publication gives neurosurgeons radiologists pathologists medical physicists neurologists oncologists ophthalmologists otolaryngologists as well as nuclear medicine and medical information technology experts an excellent understanding of the latest development of pathological fundamentals and new trends in radiosurgery

The Role of the Gamma Knife in Neurosurgery 2010 radiosurgery is a rapidly developing form of minimally invasive neurosurgery selected papers from the first meeting of the international stereotactic radiosurgery society in stockholm june 1993 reflect current multidisciplinary approaches to difficult intracranial neurosurgical problems neurosurgeons radiotherapists oncologists radiobiologists physicists and representatives of several other clinical disciplines inform about the state of the art of radiosurgical treatment of a multitude of intracranial problems such as arteriovenous malformations pituitary and pineal tumors vestibular schwannomas as well as metastatic brain tumors and gliomas

Radiosurgery and Pathological Fundamentals 2007 as an addition to the european postgraduate training system for young neurosurgeons we began to publish in 1974 this series devoted to advances and technical standards in neurosurgery which was later sponsored by the european association of neurosurgical societies this series was first discussed 1972 at a combined meeting of the italian and german neurosurgical societies in taormina the founding fathers of the series being jean brihaye bernard pertuiset fritz loew and hugo krayenbühl thus were established the principles of european co operation which have been born from the european spirit flourished in the european association and have throughout been associated with this series the fact that the english language is well on the way to becoming the international medium at european scientific conferences is a great asset in terms of mutual understanding therefore we have decided to publish all contributions in english regardless of the native language of the authors all contributions are submitted to the entire editorial board before publication of any volume our series is not intended to compete with the publications of original scientific papers in other neurosurgical journals our intention is rather to present fields of neurosurgery and related areas in which important recent advances have been made the contributions are written by specialists in the given fields and constitute the first part of each volume

Advances in Radiosurgery 2012-12-06 as an addition to the european postgraduate training system for young neurosurgeons we began to publish in 1974 this series of advances and technical standards in neurosurgery which was later sponsored by the european association of neurosurgical societies this series was first discussed in 1972 at a combined meeting of the italian and german neurosurgical societies in taormina the founding fathers of the series being jean brihaye bernard pertuiset fritz loew and hugo krayenbühl thus were established the principles of european co operation which have been born from the european spirit flourished in the european association and have been associated throughout with this series the fact that the english language is now the international medium for communication at european scientific conferences is a great asset in terms of mutual understanding therefore we have decided to publish all contributions in english regardless of the native language of the authors all contributions are

submitted to the entire editorial board before publication of any volume for scrutiny and suggestions for revision our series is not intended to compete with the publications of original scientific papers in other neurosurgical journals our intention is rather to present fields of neurosurgery and related areas in which important recent advances have been made the contributions are written by specialists in the given fields and constitute the first part of each volume

Gamma Knife Surgery 1997 this issue of the neurosurgery clinics of north america devoted to intracranial stereotactic radiosurgery is guest edited by dr bruce pollock of the mayo clinic in rochester minnesota articles in this issue include concepts and techniques of intracranial stereotactic radiosurgery stereotactic radiosurgery of intracranial meningiomas stereotactic radiosurgery of pituitary adenomas stereotactic radiosurgery of vestibular schwannomas stereotactic radiosurgery of non vestibular schwannomas multi session radiosurgery of benign intracranial tumors stereotactic radiosurgery of intracranial gliomas stereotactic radiosurgery of brain metastases stereotactic radiosurgery of chordomas chondrosarcomas and glomus tumors stereotactic radiosurgery of intracranial arteriovenous malformations stereotactic radiosurgery of intracranial dural arteriovenous fistulas stereotactic radiosurgery of intracranial cavernous malformations stereotactic radiosurgery for trigeminal neuralgia and stereotactic radiosurgery for epilepsy and functional disorders

Advances and Technical Standards in Neurosurgery 2012-12-06 practical handbook of neurosurgery invites readers to take part in a journey through the vast field of neurosurgery in the company of internationally renowned experts at a time when the discipline is experiencing a detrimental tendency to segment into various subfields and scatter in the process it can be worthwhile to collect a number of practical lessons gleaned from experienced and leading neurosurgeons the book also aims to present numerous important figures in the neurosurgical community with a brief overview of the vitae and main contributions for each we must confess that we were sad that some of the most active members were unable to participate likely due to time constraints we are however fortunate that the majority were able to take part as such though not exhaustive the book does represent an anthology of contemporary neurosurgeons from the preface at the very beginning of the project our intention was to make a pocketbook but month after month it became obvious that the work would be much more expansive ultimately we produced three volumes nevertheless we hope that all the three volumes together will remain easily accessible and a daily companion the pocket has to be more like a travel bag we would like to thank all of the contributors they have sacrificed their valuable time to deliver sound and critical views and above all useful guidelines

Advances and Technical Standards in Neurosurgery 2012-12-06 a self contained treatment of surgical planning for beginners and a compendium of tips and tricks for experts radiosurgery is a complex procedure requiring the physician to construct a radiosurgical plan i e a map that tells the radiation device exactly where to aim the beams of radiation while there are plenty of books and articles describing radiosurgery s efficacy until now there has been no instruction manual for those who wish to learn the secrets of its execution in common practice radiosurgical planning gamma tricks and cyber picks is the first self contained instruction manual for both beginners and experts teaching the art and science of radiosurgery with an emphasis on the use of the gamma knife and the cyberknife for treatment of lesions in both the brain and body the authors who together hold more than sixty years of experience in the field of radiosurgery begin with a discussion of the general principles of radiosurgical planning radiosurgical algorithms and an overview of practical first steps for beginners next they offer an extensive compendium of practical tricks and picks for more seasoned

experts included is a bonus cd rom that contains exercise files that can be loaded directly into the gamma knife planning software as well as stand alone simulation software that allows readers to practice radiosurgical planning without the necessity for a real radiosurgical device radiosurgical planning gamma tricks and cyber picks is an indispensable resource for physicians medical physicists dosimetrists neurosurgery and radiation oncology residents and anyone involved in the expanding field of radiosurgery

Intracranial Stereotactic Radiosurgery, An Issue of Neurosurgery Clinics 2013-10-28 stereotactic radiosurgery is changing how brain tumors vascular disorders of the brain are being treated by the neurosurgeon through deep beam radiation these disorders are effectively being treated with a minimum of invasive disturbance felt by the patient both the procedures the sophisticated equipment involved in this burgeoning field are presented in depth in this text

Practical Handbook of Neurosurgery 2009-11-06 the aim of the international stereotactic radiosurgery society isrs is to promote technical developments in stereotactic radiosurgery on the highest level of clinical experience based on clinical investigations in this volume high quality peer reviewed papers from the 8th international stereotactic radiosurgery society meeting held in san francisco 2007 are presented the reports include new studies on physics imaging and radiobiology in radiosurgery as well as the latest research in the field of cranial radiosurgery on benign tumors malignant tumors and vascular malformations further articles cover new investigations in the practice on spinal and body radiosurgery this publication is of special interest to neurosurgeons radiation oncologists and medical physicists who require precise information to keep up to date with the important developments on the use of stereotactic radiosurgery

Radiosurgical Planning 2011-09-20 this volume reviews standard treatments for spinal dural arteriovenous fistulas examining the anatomy of arteries and veins of the sylvian fissure as well as microsurgical advances and the development of modern therapeutic strategies in intracranial meningiomas the advances section presents a strategy for minimizing hearing loss after stereotactic radiosurgery for vestibular schwannomas as well as a description of the mode of action and biology of ala including its interaction with tumor cells and the limits of this method a dedicated chapter addresses the essential question of the limits and merits of various tractography techniques and of their importance for non specialists who may be tempted to use them uncritically a further chapter examines molecular markers which have become standard in neuropathological reports on intracranial tumors reviewing the prognostic and predictive value of these modern molecular markers in gliomas additional chapters round out the coverage offering a comprehensive overview of standard and advanced techniques

Stereotactic Radiosurgery 1993 controversies in stereotactic radiosurgery best evidence recommendations is a comprehensive reference that compiles synthesizes and summarizes the most relevant scientific literature on the topic each succinct problem oriented chapter addresses a different controversy surrounding stereotactic radiosurgery this book saves physicians significant amounts of time by distilling years of scientific research into sound guidelines that will help them make fully informed treatment decisions key features covers both intracranial and spine radiosurgery providing complete coverage of this rapidly evolving technology includes more than 35 chapters on treatment controversies for brain and spine tumors as well as vascular malformations contains summary tables throughout the text that present the main conclusions of published studies all neurosurgeons radiation oncologists and neuro oncologists involved in the treatment of patients who may be candidates for stereotactic radiosurgery of the brain and spine will find this book to be an essential decision making guide

Radiosurgery 2010-02-15 this volume offers a comprehensive discussion of the stereotactic frames frameless systems and radiosurgical procedures utilized in the treatment and control of movement and neurological disorders parkinson s disease chronic pain spasticity tumours epilepsy and arteriovenous malformations

Advances and Technical Standards in Neurosurgery 2015-10-27 this volume presents authoritative reviews of the most exciting topics in contemporary neurosurgery featuring color plates and annotated references to the leading articles in the field in addition it covers emerging technologies impacting or reorganization and computer workstations leading ultimately to the practice of neurosurgery at a molecular level

Controversies in Stereotactic Radiosurgery 2013-12-16 this book is a combination of ideas and experiences from over 100 dedicated and brilliant neurosurgeons around the world their common goal is to provide data for a deeper understanding of the multi faceted aspects of neurosurgery and by doing so to better serve patients across the globe scientific curiosity deep dedication incredible work ethics entrepreneurship and creativity are the common traits among all neurosurgeons and not the exception by allowing readers to see the field of neurosurgery from the perspectives of surgeons spanning five continents this book serves to provide multiple diverse viewpoints and to build a foundation for future collaborations the book s 24 chapters are organized into 3 parts part i provides the reader with an overview of the role of neurosurgery in worldwide health care its evolution over the past decades the current state and future directions of each neurosurgical subspecialty across the five continents over the years the overarching goal for neurosurgeons has been to develop new more effective and high end solutions for complex diseases and to provide access to neurosurgical services for all patients part ii discusses the differences and similarities of neurosurgery education and training across the globe providing a snapshot of how new tools technology and paradigms reduce inequality and increase access to neurosurgical education educational accomplishments and challenges still present for the in different regions of the world are reviewed part iii focuses on economic aspects influencing neurosurgery globally including how to make efficient decisions in the face of scarcity yet demand the authors provide theories models and tools helpful to apply when planning to allocate resources not just financial but also human and intellectual a deeper understanding of economics does not necessarily provide the answer to the problem rather it provides the tools to find an answer or ideally multiple possible solutions neurosurgery and global health is the first comprehensive guide to the role of neurosurgery in the global health care sphere providing an in depth compendium about the understanding of the neurosurgical role within global health its efforts in the education of tomorrow s workforce and the economic aspects driving the field

Handbook of Stereotactic and Functional Neurosurgery 2003-02-05

Current Techniques in Neurosurgery 2012-12-06

Proceedings of the 1992 Meeting of the Leksell Gamma Knife Society, Buenos Aires, Argentina, March 7-9, 1992 1993

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