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the interactions of dna with force are central to manifold fields of inquiry including the de novo design of dna nanostructures the use of dna to probe the principles of biological self assembly and the operation of cellular nanomachines this work presents a survey of three distinct ways coarse grained simulations can help characterize these interactions a non equilibrium energy landscape reconstruction technique is validated for use with the oxdna model and a practical framework to guide future applications is established a novel method for calculating entropic forces in dna molecules is outlined and contrasted with existing flawed approaches finally a joint experimental simulation study of large dna origami nanostructures under force sheds light on design principles and through vivid illustrations their unfolding process this text provides an accessible and exciting launching point for any student interested in the computational study of dna mechanics and force interactions

use the gpu successfully in your radiotherapy practice with its high processing power cost effectiveness and easy deployment access and maintenance the graphics processing unit gpu has increasingly been used to tackle problems in the medical physics field ranging from computed tomography reconstruction to monte carlo radiation transport simulation graphics processing unit based high performance computing in radiation therapy collects state of the art research on gpu computing and its applications to medical physics problems in radiation therapy tackle problems in medical imaging and radiotherapy the book first offers an introduction to the gpu technology and its current applications in radiotherapy most of the remaining chapters discuss a specific application of a gpu in a key radiotherapy problem these chapters summarize advances and present technical details and insightful discussions on the use of gpu in addressing the problems the book also examines two real systems developed with gpu as a core component to accomplish important clinical tasks in modern radiotherapy translate research developments to clinical practice written by a team of international experts in radiation oncology biomedical imaging computing and physics this book gets clinical and research physicists graduate students and other scientists up to date on the latest in gpu computing for radiotherapy it encourages you to bring this novel technology to routine clinical radiotherapy practice

ziel dieses promotionsvorhabens war die etablierung eines liposomalen drug delivery systems zur kombination der zwei konventionellen tumortherapiearten chemo und radiotherapie dieses system basiert auf einem liposomalen träger in kombination mit einem polyamin derivat als molekularen transporter für die nanoskalige verpackung und solubilisierung von doxorubicin als zytostatikum doxorubicin transporter eine säurelabile wirkstoffkupplung sollte dabei die wirkstofffreisetzung gezielt in sauren zellkompartimenten oder geweben unterstützen gleichzeitig erfolgte die inkorporierung von goldnanopartikeln die als radiosensitizer unterstützend zur bestrahlungstherapie dienen sollen angestrebt wurde dabei insbesondere der einschluss von doxorubicin transporter und nanopartikeln in die liposomale membran eine gezielte dimensionierung des liposomalen systems kann tumorspezifische anreicherung durch ausnutzung des epr effektes ermöglichen ausgangspunkt war zunächst die etablierung der einzelnen teilsysteme d h des liposomalen doxorubicin transporters sowie der liposomalen goldnanopartikel erfolgreiche inkorporierung epr effekt geeignete größen sowie stabilität konnte für beide teilsysteme verzeichnet werden anschließende kombination des liposomalen doxorubicin transporters und der liposomalen goldnanopartikel führte zur etablierung des liposomalen drug delivery systems auch für dieses konnten epr effekt geeignete größen und stabilität ermittelt werden erfolgreicher transport und intrazelluläre lysosomale anreicherung der goldnanopartikel in zellkernnähe konnte sowohl mittels spinning disk konfokalmikroskopie als auch durch einbettung und elektronenmikroskopische betrachtung gezeigt werden weiterhin wurde die angestrebte säurelabile spaltung und freisetzung des doxorubicins aus dem drug delivery system nach endozytotischer aufnahme in zellen erfolgreich nachgewiesen mittels eines toxitätstests konnte außerdem schutzwirkung vor den stark toxischen einflüssen des doxorubicin transporters nach liposomaler inkorporierung beobachtet werden dies ist besonders wichtig um nach in vivo applikation die entstehung von nebenwirkungen zu minimieren dennoch konnte mit hilfe einer untersuchung der endothelialen aufnahme und des transendothelialen transports sehr deutlich gezeigt werden dass zwar keine schädigenden einflüsse auf das endothel jedoch aber auf das darunter liegende gewebe in dem das delivery system angereichert wurde stattfanden auch mittels eines bestrahlungstests konnte ein trend zur erhöhung der bestrahlungswirkung nach inkorporierung der goldnanopartikel verzeichnet werden so konnte insgesamt die erfolgreiche etablierung eines stabilen liposomalen drug delivery systems die intrazelluläre anreicherung der transportierten substanzen in angestrebten kompartimenten sowie auch effektivität des systems erreicht werden

graphene is the strongest material ever studied and can be an efficient substitute for silicon this six volume handbook focuses on fabrication methods nanostructure and atomic arrangement electrical and optical properties mechanical and chemical properties size dependent properties and applications and industrialization there is no other major reference work of this scope on the topic of graphene which is one of the most researched materials of the twenty first century the set includes contributions from top researchers in the field and a foreword written by two nobel laureates in physics

as a spectroscopic method nuclear magnetic resonance nmr has seen spectacular growth both as a technique and in its applications today s applications of nmr span a wide range of scientific disciplines from physics to biology to medicine each volume of nuclear magnetic resonance comprises a combination of annual and biennial reports which together provide comprehensive coverage of the literature on this topic this specialist periodical report reflects the growing volume of published work involving nmr techniques and applications in particular nmr of natural macromolecules which is covered in two reports nmr of proteins and nucleic acids and nmr of carbohydrates lipids and membranes in his foreword to the first volume the then editor professor robin harris announced that the series would be a discussion on the phenomena of nmr and that articles will be critical surveys of the literature this has certainly remained the case throughout the series and in line with its predecessors volume 40 aims to provide a comprehensive coverage of the relevant nmr literature for the current volume this relates to publications appearing between june 2009 and may 2010 the nominal period of coverage in volume 1 was july 1970 to june 1971 compared to the previous volume there are some new members of the reporting team theoretical aspects of spin spin couplings are covered by j jazwinski while e swiezewska and j wojcik provide an account of nmr of carbohydrates lipids and membranes

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carbohydrates lipids and membranes in his foreword to the first volume the then editor professor robin harris announced that the series would be a discussion on the phenomena of nmr and that articles will be critical surveys of the literature this has certainly remained the case throughout the series and in line with its predecessors volume 40 aims to provide a comprehensive coverage of the relevant nmr literature for the current volume this relates to publications appearing between june 2009 and may 2010 the nominal period of coverage in volume 1 was july 1970 to june 1971 compared to the previous volume there are some new members of the reporting team theoretical aspects of spin spin couplings are covered by j jazwinski while e swiezewska and j wojcik provide an account of nmr of carbohydrates lipids and membranes

this first dedicated overview for beam s eye view bev covers instrumentation methods and clinical use of this exciting technology which enables real time anatomical imaging it highlights how the information collected e g the shape and size of the beam aperture and intensity of the beam is used in the clinic for treatment verification adaptive radiotherapy and in treatment interventions the chapters cover detector construction and components common imaging procedures and state of the art applications the reader will also be presented with emerging innovations including target modifications real time tracking reconstructing delivered dose and in vivo portal dosimetry ross i berbeco phd is a board certified medical physicist and associate professor of radiation oncology at the dana farber cancer institute brigham and women s hospital and harvard medical school

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