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the author is ready to assert that practically none of the readers of this book will ever happen to deal with large doses of radiation but the author without a shadow of a doubt claims that any readers of this book regardless of gender age financial situation type of professional activity and habits are actually exposed to low doses of radiation throughout their life this book is devoted to the effect of small doses on the body to understand the basic effects of radiation on humans the book contains the necessary information from an atomic molecular and nuclear physics as well as from biochemistry and biology special attention is paid to the issues that are either not considered or discussed very briefly in existing literature examples include the ionization of inner atomic shells that play an essential role in radiological processes and the questions of transformation of the energy of ionizing radiation in matter the benefits of ionizing radiation to mankind is reflected in a wide range of radiation technologies used in science industry agriculture culture art forensics and what is the most important application medicine radiation fundamentals applications risks and safety provides information on the use of radiation in modern life its usefulness and indispensability experiments on the effects of small doses on bacteria fungi algae insects plants and animals are described human medical experiments are inhuman and ethically flawed however during the familiarity of mankind with ionizing radiation a large number of population groups were subject to accumulation exposed to radiation at doses of small but exceeding the natural background radiation this book analyzes existing real life radiation results from survivors of hiroshima and nagasaki chernobyl and fukushima and examines studies of radiation effect on patients radiologists crews of long distant flights and astronauts on miners of uranium copies on workers of nuclear industry and on militaries exposed to ionizing radiation on a professional basis and on the population of the various countries receiving environmental exposure the author hopes that this book can mitigate the impact of radiation phobia which prevails in the public consciousness over the last half century explores the science of radiation and the effects of radiation technologies and biological processes analyzes the elementary processes of ionization and excitation summarizes information about inner shells ionization and its impact on matter and biological structures discusses quantum concepts in biology and clarifies the importance of epigenetics in radiological processes includes case studies focusing on humans irradiated by low doses of radiation and its effects

applied coatings an integrated collection of case studies providing a concise guide for professionals working with coatings materials in academia and industry in applied coatings chemistry formulation and performance distinguished scientist dr weih q lee delivers an illuminating collection of case studies designed to connect various elements of applied coatings technology going beyond generic discussions the author describes the fundamental chemistry formulations and properties of applied coating materials including the structural and functional components of structure property relationships as well as the foundations of applied cure kinetics and the rheology of epoxy coatings each chapter is self contained comprehensive and can be read individually while the book remains technically and editorially integrated core themes include structure performance relationships formulation index driven experiment design and consolidated thermal analysis readers will also find a thorough introduction to epoxies and epoxy curing agents including oxetanes vinyl esters glycidyl methacrylate gma isocyanate and silicone crosslinkers cationic catalysts acrylate

and phenol accelerators and specialty derivatives attentive descriptions of epoxy curing chemistry including epoxy phenolic polyamide active ester and acid or base catalyzed systems in a broader scope comprehensive explorations of cure kinetics and rheology including model free kinetics mfk the nth order model covering kissinger plots and the borchardt daniels bd approach the autocatalytic model executive quantification via curve fitting of dsc differential scanning calorimetry exotherms the rheology of non reactive fluids and the viscoelasticity of reactive coatings practical discussions of c1s thick film surface coatings c2s structural lamination liquid and powder epoxies and phenolic coatings including fluorene monomers heterocyclic resins and polymerizable derivatives complete treatments of coating characterization microencapsulation epoxy hybrids and non epoxy platforms adhesion of applied coatings and adhesion promotion including reactive and functional silicones perfect for formulation and research and development scientists and engineers at any technical level applied coatings will also benefit research professors and students studying coatings adhesives composites electronic materials and more

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this book is a glimpse into the sol gel universe providing a wealth of information to curious undergraduate postgraduate and research students the book focuses on the direct application of the sol gel technique to synthesize the transparent silica coatings which exhibit remarkable surface properties research scholars will find techniques to combine remarkable surface properties such as transparency hydrophobicity and enhanced scratch resistance of coatings detailed within is an eco friendly route to enhance the hydrophobicity of coatings

this book presents latest research results on synthesis and application of metallic nanomaterials fabrication techniques analytic properties as well as theoretical aspects are discussed size and shape controlled synthesis of silver gold copper ruthenium tellurium selenium and palladium nanoparticles are reviewed further topics are the synthesis from microplasma and shape control for electrocatalytic applications

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