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Autore	Schwarz Tobias
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ISBN	1-118-78567-3 1-283-27289-X 0-470-96012-4 9786613272898
Descrizione fisica	1 online resource (1359 p.)
Altri autori (Persone)	SaundersJimmy
Disciplina	636.089/60757 636.08960757
Soggetti	Veterinary tomography Veterinary tomography - Digital techniques Radiography, Medical Tomography, X-Ray Image Interpretation, Computer-Assisted Radiographic Image Enhancement Guideline Image Enhancement Publication Formats Radiography Tomography Diagnostic Imaging Publication Characteristics Diagnostic Techniques and Procedures Photography Diagnosis Analytical, Diagnostic and Therapeutic Techniques and Equipment Practice Guideline Tomography, X-Ray Computed Health & Biological Sciences Veterinary Medicine Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa

Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	<p>Cover; Title page; Copyright page; Contributors; Preface; Acknowledgements; Basic CT Unit Anatomy; X-Ray Tube; Collimators and Filtration; Detector Systems; Gantry Anatomy; Scanning Modes; Table Design; Proprietary CT Terminology; CHAPTER ONE: CT Physics and Instrumentation - Mechanical Design; Image Parameter Selection; Patient Set-Up; Patient Restraint; CHAPTER TWO: CT Acquisition Principles; Basic CT Descriptive Terminology; Image Labels; Tomographic Reconstruction: CT Numbers or Hounsfield Units; Digital Image Display: Windowing Techniques</p> <p>CHAPTER THREE: Principles of CT Image InterpretationIntroduction; Geometrical Errors; Algorithm Distortions; Attenuation Measurement-Induced Artifacts; Energy Spectrum Effects; Conclusions; CHAPTER FOUR: Artifacts in CT; Intravenous Contrast Medium Administration; Equine Intra-Arterial Contrast Administration; Contrast Administration Method: Manual Versus Power Injector; Other Contrast Media Applications; CHAPTER FIVE: CT Contrast Media and Applications; Densitometry; Automated Bolus Tracking; CT Perfusion Imaging; Multiplanar Reconstruction; Curvilinear Reconstruction</p> <p>Paddle Wheel Reconstruction3D Reconstruction; CHAPTER SIX: Special Software Applications; Picture Archive and Communication Systems; DICOM; RIS/HIS; Transfer Speed; Non-Proprietary Workstations; CHAPTER SEVEN: Digital Environment; Introduction; Principles of External Beam Radiotherapy; Principles of Radiotherapy Treatment Planning; Reducing Set-Up Errors; Summary; CHAPTER EIGHT: CT Planning for Radiotherapy; Introduction; CT for Biopsy Procedures; CT Monitoring of Stents and Other Devices; CT Assisted Embolization Techniques; CT-Monitored Cryoablation of Tumors; Interventional CT in Equines</p> <p>CHAPTER NINE: Interventional CTBusiness Plan: Income versus Expenses, i.e. Profit or Loss; Service Contract: All, Some or Nothing at All; Caseload Considerations: Fixed and Variable Costs of Doing Business; CHAPTER TEN: Purchase Considerations; Imaging Protocol; CT: Anatomy and Normal Variants; Disease Features; CHAPTER ELEVEN: Nasal Cavities and Frontal Sinuses; Imaging Protocol; CT: Anatomy and Normal Variants; Non-Dental Diseases; Dental Diseases; CHAPTER TWELVE: Oral Cavity, Mandible, Maxilla and Dental Apparatus; Imaging Protocol; CT: Anatomy and Normal Variants; Disease Features</p> <p>CHAPTER THIRTEEN: Temporomandibular Joint and Masticatory ApparatusImaging Protocol; The Orbita; The Salivary Glands; Lacrimal System; CHAPTER FOURTEEN: Orbita, Salivary Glands and Lacrimal System; Imaging Protocol; CT: Anatomy and Normal Variants; CT Disease Features; CHAPTER FIFTEEN: External, Middle and Inner Ear; Imaging Protocol; CT: Anatomy and Normal Variants; CT Disease Features; CHAPTER SIXTEEN: Calvarium and Zygomatic Arch; Imaging Protocol; CT: Anatomy and Normal Variants; Disease Features; CHAPTER SEVENTEEN: Lymph Nodes of Head and Neck; Imaging Protocol</p> <p>CT: Anatomy and Normal Variants</p>
Sommario/riassunto	<p>This practical and highly illustrated guide is an essential resource for veterinarians seeking to improve their understanding and use of computed tomography (CT) in practice. It provides a thorough grounding in CT technology, describing the underlying physical principles as well as the different types of scanners. The book also includes principles of CT examination such as guidance on positioning</p>

and how to achieve a good image quality. Written by specialists from twelve countries, this book offers a broad range of expertise in veterinary computed tomography, and is the first book to des

2. Record Nr.	UNINA9910583094003321
Titolo	Cold plasma in food and agriculture : fundamentals and applications / / edited by N. N. Misra, Oliver Schluter, P. J. Cullen
Pubbl/distr/stampa	Amsterdam, [Netherlands] : , : Academic Press, , 2016 ©2016
ISBN	0-12-801489-X 0-12-801365-6
Descrizione fisica	1 online resource (382 p.)
Disciplina	530.44
Soggetti	Low temperature plasmas Low temperature engineering
Lingua di pubblicazione	Inglese
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Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Front Cover; Cold Plasma in Food and Agriculture: Fundamentals and Applications; Copyright; Contents; Contributors; Foreword; Chapter 1: Plasma in Food and Agriculture; 1. Challenges and Trends in Food Production; 1.1. Food Security; 1.2. Food Safety; 1.3. Minimal Processing; 1.4. Consumer and Regulatory Acceptance; 2. The Emergence of Nonthermal Solutions; 2.1. Related Nonthermal Technologies; 2.1.1. Pulsed Electric Field Processing; 2.1.2. Pulsed Ultraviolet-Light Processing; 2.1.3. Ozone Processing; 2.1.4. General Remarks; 3. What Is Cold Plasma?; 4. History 5. Cold Plasma in Food Processing-A Paradigm Shift6. Objective of the Book; Acknowledgments; References; Chapter 2: Physics of Cold Plasma; 1. Introduction; 2. Electron Kinetics; 3. Plasma Chemistry; 4. Breakdown Processes; 5. Plasma Sources; 5.1. Glow Discharge; 5.2. Microplasmas; 5.3. Corona Discharge; 5.4. Dielectric Barrier Discharge; 5.5. Jet Sources; 6. Modeling Approaches; 7. Summary; References;

Chapter 3: The Chemistry of Cold Plasma; 1. Introduction; 2. Collisional Processes in Plasma; 2.1. Primary Plasma Processes-Collisions of Electrons  
 2.2. Secondary Plasma Processes-Collisions of Heavy Particles  
 3. Some Case Studies in Plasma Chemistry of Relevance to Food and Agriculture;  
 3.1. The Plasma Chemistry of Ozone Formation; 3.2. Nitrogen Fixation by Cold Plasma; 3.2.1. The Plasma Production of Nitrogen Oxides and Nitric Acid; 3.2.2. Ammonia Production by Nonthermal Plasma; 3.3. Cold Plasma Treatment of VOCs; 4. Concluding Remarks; References;  
 Chapter 4: Atmospheric Pressure Nonthermal Plasma Sources; 1. Introduction; 2. Corona Discharge APNTP; 2.1. Corona Discharge; 2.2. Pulsed Corona Discharge; 2.3. Application of Corona APNTP  
 3. Dielectric Barrier Discharge APNTP  
 3.1. Dielectric Barrier Discharge; 3.2. Different Patterns of DBD; 3.3. Applications of DBD APNTP; 4. Glow Discharge APNTP; 4.1. Low Pressure Glow Discharge; 4.2. Atmospheric Pressure Glow Discharge; 4.3. Microdischarges; 4.4. Hollow Cathode Discharge; 4.5. Glow Discharge With Liquid Electrodes; 5. Atmospheric Pressure Plasma Jets; 6. High Voltage Pulsed Discharge Produced APNTP; 7. Conclusion; References;  
 Chapter 5: Plasma Diagnostics; 1. Introduction; 2. Electrical Diagnostics of Plasma; 2.1. Langmuir Probe; 2.2. Equivalent Circuit Model  
 2.3. Interferometry  
 3. Optical Diagnostics of Nonthermal Plasma; 3.1. Instrumentations; 3.2. Optical Emission Spectroscopy; 3.3. Spectral Profile (Voigt); 3.4. Plasma Density (Stark Broadening); 3.5. Optical Absorption Spectroscopy; 3.6. Laser-Induced Fluorescence; 3.7. Laser Scattering; 3.8. Infrared Spectroscopy; 4. Electron Spin Resonance; 5. Mass Spectrometry of Plasma; 6. Concluding Remarks; References;  
 Chapter 6: Principles of Nonthermal Plasma Decontamination; 1. Introduction; 1.1. Plasma as a Tool for Biodecontamination; 2. Role of Plasma Species in Microbial Inactivation  
 2.1. Reactive Oxygen Species (ROS) and Reactive Nitrogen Species (RNS)

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