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Titolo	Bovine reproduction / / edited by Richard McRae Hopper
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ISBN	1-118-83397-X 1-118-47085-0 1-118-47087-7
Descrizione fisica	1 online resource (819 p.)
Disciplina	636.2/1
Soggetti	Cattle - Reproduction Cattle - Breeding
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Bovine Reproduction; Copyright; Contents; Contributors; Preface; Section I The Bull; Anatomy and Physiology; Chapter 1 Anatomy of the Reproductive System of the Bull; Introduction; Production; Transport; Transfer; Blood supply; Nervous supply; Accessory glands; References; Chapter 2 Endocrine and Exocrine Function of the Bovine Testes; Introduction; Historical perspective; The testis; Endocrine function of the testis; Spermatogenesis and maturation of spermatozoa; References; Chapter 3 Thermoregulation of the Testes; Introduction; Anatomy and physiology; Surface and internal temperatures Sources of testicular heatPathogenesis of heat-induced changes in sperm morphology; Evaluation of scrotal surface temperature with infrared thermography; Effects of increased testicular temperature; References; Chapter 4 Endocrine Control of Testicular Development and Initiation of Spermatogenesis in Bulls; Introduction; Infantile period; Prepubertal period; Pubertal period; Metabolic hormones during the prepubertal and pubertal periods; GnRH-independent testicular development; References; Breeding and Health Management; Chapter 5 Bull Development: Sexual Development and Puberty in Bulls IntroductionTesticular development; Puberty; Development of accessory sex organs; Development of sexual behavior; Effects of nutrition on

sexual development; Implications of sexual development and puberty for breeding soundness evaluation; References; Chapter 6 Breeding Soundness Examination in the Bull:: Concepts and Historical Perspective; Introduction; What is a BBSE?; Overview of the current BBSE; Limitations and concerns; Conclusion; Chapter 7 Evaluation of Breeding Soundness:: The Physical Examination; Introduction; History; Basic physical examination
Examination of the reproductive systemExample of an examination protocol; Scrotal circumference; References; Chapter 8 Evaluation of Breeding Soundness: : Basic Examination of the Semen; Introduction; Semen evaluation as part of a standard BBSE; Chapter 9 Ultrasound Evaluation of the Reproductive Tract of the Bull; Introduction; Equipment and general methodology; Examination of the scrotum; Examination of the pelvic organs; Examination of the penis and prepuce; Summary; References; Chapter 10 Management of Breeding Bull Batteries; Introduction; Pre-breeding period; Breeding period Nonbreeding periodBiosecurity concerns for replacement bulls; References; Chapter 11 Management of Bulls at Custom Collection Studs; Veterinary services for the commercial bull stud; Veterinarian's role in the bull stud; The collection process; Common problems of bulls at stud; Conclusion; Chapter 12 Testicular Degeneration; Introduction; Pathogenesis; Diagnosis; Prognosis; Testis fibrosis; References; Chapter 13 Vesicular Adenitis; Prevalence; Cause; Pathogenesis; Effect on fertility; Diagnosis; Treatment; Prevention of vesiculitis; References Chapter 14 Inability to Breed due to Injury or Abnormality of the External Genitalia of Bulls

Sommario/riassunto

Bovine Reproduction is a comprehensive, current reference providing information on all aspects of reproduction in the bull and cow. Offering fundamental knowledge on evaluating and restoring fertility in the bovine patient, the book also places information in the context of herd health where appropriate for a truly global view of bovine theriogenology. Printed in full color throughout, the book includes 83 chapters and more than 550 images, making it the most exhaustive reference available on this topic. Each section covers anatomy and physiology, breeding management, and reproductive surge

2. Record Nr. UNINA9910845095103321

Autore	Li Longbiao
Titolo	Micromechanics of Ceramic-Matrix Composites at Elevated Temperatures / / by Longbiao Li
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2024
ISBN	9789819712946 9819712947
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (139 pages)
Collana	Advanced Ceramics and Composites, , 2662-9313 ; ; 6
Disciplina	620.118
Soggetti	Composite materials Materials - Analysis Mechanics, Applied Solids Ceramic materials Aerospace engineering Astronautics Composites Characterization and Analytical Technique Solid Mechanics Ceramics Aerospace Technology and Astronautics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Micromechanics Stress-Strain Behavior of Ceramic-Matrix Composites under Monotonic Tensile Loading at Room and Elevated Temperatures -- Micromechanics Proportional Limit Stress of Ceramic-Matrix Composites under Monotonic Tensile Loading at Elevated Temperatures -- Micromechanics Residual Strength of Ceramic-Matrix Composites under Cyclic Fatigue Loading at Elevated Temperatures -- Micromechanics Mechanical Hysteresis of Ceramic-Matrix Composites under Cyclic Fatigue at Elevated Temperature -- Micromechanics Interface Damage of Ceramic-Matrix Composites under Cyclic Fatigue at Elevated Temperature -- Micromechanics

Lifetime of Ceramic-Matrix Composites under Cyclic Fatigue Loading at Elevated Temperatures -- Micromechanics Strain Response of Ceramic-Matrix Composites under Creep Loading at Elevated Temperature -- Micromechanics Strain Response of Ceramic-Matrix Composites under Creep-Fatigue Loading at Elevated Temperature.

Sommario/riassunto

Ceramic-matrix composites (CMCs) possess high specific strength and modulus at elevated temperature, and have already been applied in hot-section components in aero-engines. To ensure the operation reliability and safety of CMCs components, it is necessary to understand the micro damage mechanisms and internal damage state in the composites. This book focuses on the micromechanics of CMCs at elevated temperatures, including the stress-strain behavior, proportional limit stress, residual strength, mechanical hysteresis, interface damage, strain response, and lifetime of CMCs at elevated temperatures. This book can help the material scientists and engineering designers to better understand and master the micromechanics of CMCs at elevated temperatures.