

1. Record Nr.	UNINA9910795214203321
Autore	Thygesen Rene
Titolo	Development of a partially premixed combustion model for a diesel engine using multiple injection strategies // Rene Thygesen
Pubbl/distr/stampa	Berlin : , : Logos Verlag, , [2012] ©2012
ISBN	3-8325-9702-6
Descrizione fisica	1 online resource (160 pages)
Disciplina	621.436
Soggetti	Diesel engines - Models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	PublicationDate: 20120229
Sommario/riassunto	<p>Long description: In order to fulfil future emissions legislations, new combustion systems are to be investigated. One way of improving exhaust emissions is the application of multiple injection strategies and conventional or partially premixed combustion conditions to a Diesel engine. The application of numerical techniques as CFD supports and improves the quality of engine developments. Unfortunately, current spray and combustion models are not accurate enough to simulate multiple injection systems, being in this way a topic of research. The goal of this study was the development of a novel simulation method for the investigation of Diesel engines operated with multiple injection strategies and different combustion modes. The first part of this work focused in improving the spray modelling. The information of 3D CFD simulations of the injector nozzle was introduced in the spray simulation as boundary conditions developing coupling subroutines for this issue. The atomisation modelling was also improved using validated presumed droplet size distributions. Moreover, to avoid the simulation of the injector nozzle for every investigated operating point, a novel interpolating tool was developed in order to create spray boundary conditions based on few 3D CFD simulations of the nozzle under certain initial and boundary conditions. The second part of this thesis dealt with the combustion modelling of Diesel engines. For this</p>

issue, a laminar flamelet approach called Representative Interactive Flamelet model (RIF) was selected and implemented. Afterwards, an extended combustion model based on RIF was developed in order to take into account multiple injection strategies. Finally, this new model was validated with a wide range of operating points: applying multiple injection strategies under conventional and partially premixed combustion conditions.

2. Record Nr.	UNINA9910792840903321
Titolo	The scar book : formation, mitigation, rehabilitation, and prevention // [edited by] Andrew C. Krakowski, MD, Peter R. Shumaker, MD
Pubbl/distr/stampa	Philadelphia : , : Wolters Kluwer, , [2017] 2017
ISBN	1-4963-8481-4 1-4963-8480-6
Descrizione fisica	1 online resource (xviii, 388 pages) : illustrations (some color)
Collana	Gale eBooks
Disciplina	617.14
Soggetti	Scars Granulation tissue Wound healing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	SECTION I. Perspectives -- 1. A Historical Perspective on Scar Management -- 2. The Global Impact of Scars -- 3. Medical Conditions Associated with Scarring and Fibrosis -- 4. Scars and Scar Management: Ethical Considerations -- SECTION II. Formation -- 5. Scar Histopathology and Morphologic Classification -- 6. The Cellular and Molecular Basis of Scarring: The Paradigm of Hypertrophic Scarring After Thermal Injury -- 7. The Biomechanics of Scar Formation -- SECTION III. Mitigation -- 8. An Approach to Scar Mitigation -- 9. Optimizing Wound Healing and Scar Formation -- SECTION IV. Rehabilitation -- 10. Medical Management of Scars -- 11. Neurobiology

of Scars: Managing Pain and Itch -- 12. Surgical Scar Revision -- 13. Lasers and Light Devices in Scar Management -- 14. Laser-Assisted Delivery of Therapeutic Agents -- 15. Fat Grafting for Scar Treatment -- 16. Multimodal Scar Management -- 17. Atrophic Scar Management -- 18. Scar Management in Skin of Color -- 19. Rehabilitative Burn Scar Management -- 20. Scar Camouflage -- 21. Medical Tattooing -- 22. A Pediatric Perspective -- 23. A Perspective from Military Medicine -- 24. Recovery and Reintegration After Burn Injury -- 25. Integrating Scar Management into Clinical Practice -- SECTION V. Prevention -- 26. Scar Treatment, Restoration, and Prevention-Beyond the Horizon? -- 27. Fetal Wound Healing -- 28. Clinical Scar Research: Quantitative and Qualitative Assessment of Hypertrophic Burn Scars.

Sommario/riassunto

Scarring and fibrosis affect millions of people worldwide, and can be devastating both physically and psychologically, whether they result from major trauma such as burns or common conditions such as acne. This book presents the state of the art in scar pathophysiology and treatment, breaking down the barriers between medical disciplines to provide holistic guidance.

3. Record Nr.	UNINA9910437830503321
Titolo	Assessing ocular toxicology in laboratory animals // Andrea A. Weir, Margaret Collins, editors
Pubbl/distr/stampa	New York, : Springer, 2013
ISBN	1-283-93456-6 1-62703-164-2
Edizione	[1st ed. 2013.]
Descrizione fisica	1 online resource (326 p.)
Collana	Molecular and integrative toxicology
Altri autori (Persone)	WeirAndrea A CollinsMargaret
Disciplina	617.7 617.71
Soggetti	Ocular toxicology Veterinary ophthalmology Tumors in animals
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.

---

**Nota di bibliografia**

Includes bibliographical references and index.

---

**Nota di contenuto**

Comparative Ocular Anatomy in Commonly Used Laboratory Animals -- Assessment of Ocular Toxicity Potential: Basic Theory and Techniques -- Emerging Imaging Technologies for Assessing Ocular Toxicity in Laboratory Animals -- Emerging Electrophysiological Technologies for Assessing Ocular Toxicity in Laboratory Animals -- Toxicologic Pathology of the Eye: Histologic Preparation and Alterations of the Anterior Segment -- Toxicologic Pathology of the Eye: Alterations of the Lens and Posterior Segment -- Nonclinical Regulatory Aspects for Ophthalmic Drugs -- Ocular Toxicity Regulatory Considerations for Non-Drug Food and Drug.

---

**Sommario/riassunto**

Ocular toxicity is routinely assessed in toxicology studies conducted for regulatory purposes. Ocular anatomy and physiology and the assessment of ocular toxicity itself can be challenging to scientists involved in the safety assessment of pharmaceuticals, pesticides and other agents. Anatomical and physiological differences between species can impact the nature of ocular effects observed following intended or unintended exposure of ocular tissues to xenobiotics. Ocular Toxicity in Laboratory Animals provides a concise reference addressing ocular anatomy and physiology across species that will enhance the design and interpretation of toxicology studies conducted for regulatory purposes. The book provides an overview of routine and advanced techniques that are used to assess ocular toxicity including slit lamp biomicroscopy, indirect ophthalmoscopy, electrophysiology and imaging methods for the anterior and posterior segments of the eye. Additionally, the book defines the regulatory expectations for pharmaceuticals intended to treat ocular diseases and for other non-pharmaceutical regulated chemicals. With contributions from experts in the field, Ocular Toxicity in Laboratory Animals is an authoritative, accessible guide for toxicologists and other scientists involved in conducting toxicology studies for regulatory purposes and/or reviewing data from such studies.

---