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Titolo	Hand preference and hand ability : evidence from studies in haptic cognition // Miriam Ittyerah
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Collana	Advances in interaction studies (AIS), , 1879-873X ; ; volume 5
Disciplina	152.3/35
Soggetti	Touch Hand Left- and right-handedness Electronic books.
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 indexes.
Nota di contenuto	Hand Preference and Hand Ability; Editorial page; Title page; LCC data; Table of contents; Preface; Ways of knowing; 1.1 Introduction; 1.2 Ways of knowing; 1.3 Perception; 1.4 Action; 1.5 Language; 1.6 Reading with fingers; 1.7 Sensory modes of concept attainment; 1.8 Queries and concern; 1.9 Evolution of lateralization; 1.10 Right and left hemisphere advantages; 1.11 Evolution of handedness; 1.12 Advantages of laterlization; Hand; 2.1 Fundamental grips; 2.2 Grasping behaviour; 2.3 Development of manual dexterity; 2.4 Role of vision in hand actions 2.5 Experimental treatments that assess the role of vision2.5.1 Restricted rearing; 2.5.2 Reafference studies; 2.5.3 Perceptual rearrangement; 2.6 Eye- hand coordination; 2.7 Reaching without vision; 2.8 Is pointing guided by vision?; 2.9 Hand preference; Hand and brain; 3.1 Vertebrate lateralization; 3.2 Lateralization of object recognition; 3.3 Somatosensory asymmetry; 3.4 Left and right: Brain and hand; 3.5 Dissociation of thought and action; 3.6 Effect of delay in thought and action; 3.7 Role of vision in hand actions; 3.8 The hand as a frame of reference; 3.9 Sensorimotor interface 3.10 Handedness and species differentiationTactile cognition; 4.1 Sensitivity; 4.2 Perceiving weights and temperatures; 4.3 Touch

receptors and neural pathways; 4.4 Inter-sensory integration; 4.5 Unity of the senses; 4.6 Studies with blind subjects; 4.7 Haptic cognition; 4.8 Multimodal spatial interactions; 4.9 Three dimensional shapes; 4.10 Do the hands differ in haptic cognition?; 4.11 Millar's reference hypothesis; 4.12 Is vision necessary for haptic perception?; Hand and skill; 5.1 Developing motor skills; 5.2 Hand preferences differ from hand ability; 5.3 Hand ability  
5.4 Implications of hand ability Epilogue; References; Author index; Subject index

**Sommario/riassunto**

This volume adds new dimension and organization to the literature of touch and the hand, covering a diversity of topics surrounding the perception and cognition of touch in relation to the hand. No animal species compare to humans with regard to the haptic (or touch) sense, so unlike visual or auditory cognition, we know little about such haptic cognition. We do know that motor skills play a major role in haptics, but senses like vision do not determine hand preference or hand ability. It seems also that the potential ability to perform a task may be present in both hands and evidence indicate

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**Titolo**

Biodiesel : From Production to Combustion // edited by Meisam Tabatabaei, Mortaza Aghbashlo

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**Collana**

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**Disciplina**

662.669  
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**Soggetti**

Renewable energy resources  
Energy policy  
Microbiology  
Renewable and Green Energy  
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## Nota di contenuto

Chapter 1. Global biodiesel production: The state of the art and impact on climate change -- Chapter 2. Biodiesel production systems: reactor technologies -- Chapter 3. Biodiesel production systems: operation, process control, and troubleshooting -- Chapter 4. Biodiesel purification and upgrading technologies -- Chapter 5. Applications of biodiesel by products -- Chapter 6. Economic risk analysis and critical comparison of biodiesel production systems -- Chapter 7. Techno-economical aspects of biodiesel plants -- Chapter 8. Biodiesel production and consumption: life cycle assessment (LCA) approach -- Chapter 9. Exergy-based sustainability analysis of biodiesel production and combustion processes -- Chapter 10. "Omics Technologies" and Biodiesel Production.

## Sommario/riassunto

This book presents in-depth information on the state of the art of global biodiesel production and investigates its impact on climate change. Subsequently, it comprehensively discusses biodiesel production in terms of production systems (reactor technologies) as well as biodiesel purification and upgrading technologies. Moreover, the book reviews essential parameters in biodiesel production systems as well as major principles of operation, process control, and troubleshooting in these systems. Conventional and emerging applications of biodiesel by-products with a view to further economize biodiesel production are also scrutinized. Separate chapters are dedicated to economic risk analysis and critical comparison of biodiesel production systems as well as techno-economical aspects of biodiesel plants. The book also thoroughly investigates the important aspects of biodiesel production and combustion by taking advantage of advanced sustainability analysis tools including life cycle assessment (LCA) and exergy techniques. In closing, the application of Omics technologies in biodiesel production is presented and discussed.