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Aostechnologies

# High Speed Imaging Aostechnologies

The book summarises the  
outcom of a priority research  
programme: 'Analysis,  
Modelling and Computation of

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Multiphase Flows'. The results of 24 individual research projects are presented. The main objective of the research programme was to provide a better understanding of the physical basis for multiphase

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gas-liquid flows as they are found in numerous chemical and biochemical reactors. The research comprises steady and unsteady multiphase flows in three frequently found reactor configurations, namely bubble

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columns without interiors, airlift loop reactors, and aerated stirred vessels. For this purpose new and improved measurement techniques were developed. From the resulting knowledge and data, new and

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refined models for describing the underlying physical processes were developed, which were used for the establishment and improvement of analytic as well as numerical methods for

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predicting multiphase reactors. Thereby, the development, layout and scale-up of such processes should be possible on a more reliable basis.

\*Searchable CD ROM  
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(including images) \*Over 450 color images, plus never before published images provided by the George Eastman House collection, as well as images from Ansel Adams, Howard Schatz, and Jerry Uelsmann to

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name just a few The role and value of the picture cannot be matched for accuracy or impact. This comprehensive treatise, featuring the history and historical processes of photography, contemporary

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applications, and the new and evolving digital technologies, will provide the most accurate technical synopsis of the current, as well as early worlds of photography ever compiled. This Encyclopedia, produced by

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a team of world renown practicing experts, shares in highly detailed descriptions, the core concepts and facts relative to anything photographic. This Fourth edition of the Focal

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Encyclopedia serves as the definitive reference for students and practitioners of photography worldwide, expanding on the award winning 3rd edition. In addition to Michael Peres (Editor in

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Chief), the editors are:  
Franziska Frey (Digital  
Photography), J. Tomas Lopez  
(Contemporary Issues), David  
Malin (Photography in Science),  
Mark Osterman (Process  
Historian), Grant Romer

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(History and the Evolution of  
Photography), Nancy M. Stuart  
(Major Themes and  
Photographers of the 20th  
Century), and Scott Williams  
(Photographic Materials and  
Process Essentials)

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"Global electro-optic  
technology and markets."

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solutions for technical  
professionals worldwide."

Translational Pain Research  
Conservation Agriculture for

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Africa

Analysis, Modelling and  
Calculation

Microfluidics: Modeling,  
Mechanics and Mathematics

Ansaetze zur akustischen  
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Fahrbahnen fuer  
Elektrofahrzeuge unter  
Antriebsmoment  
Mechanisms, Mechanical  
Transmissions and Robotics  
The Injection Molding  
Handbook provides

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engineers, professionals  
and other involved in  
this important industry  
sector with a thorough  
up-to-date overview of  
injection molding  
processing equipment and

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techniques, including the basic fundamental information on chemistry, physics, material science and process engineering. It covers all components of

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the injection molding machine and the various process steps. Topics directly affecting injection molding, such as material selection, process control,

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simulation, design and troubleshooting complete this reference book for the injection molder.

The updated second edition handbook presents a well-rounded

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overview of the  
underlying theory  
governing the various  
injection molding  
processes without  
loosing its practical  
flavor.

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Tillage agriculture has led to widespread soil and ecosystem degradation globally. This is especially so in Africa where traditional and modern tillage-based

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agricultural practices  
have become  
unsustainable due to  
severe disturbance and  
exploitation of natural  
resources, with negative  
impacts on the

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environment and rural livelihoods. In addition, agriculture in Africa today faces major challenges including increased costs of production and energy,

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the effects of climate change, and the lack of an effective paradigm for sustainable intensification, especially for small- and medium-size

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holdings. Africa is facing a serious challenge to food security and as a continent has not advanced towards eradicating hunger. In

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addition, the population is still growing much faster than on most other continents. This pressure has led to the emergence of no-till conservation agriculture

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as a serious alternative sustainable agriculture paradigm. In Africa, in recent years, conservation agriculture techniques and methods have spread to many

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countries, as greater development, education and research effort are directed towards its extension and uptake. This book is aimed at agricultural researchers

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and scientists,  
educationalists, and  
agricultural service  
providers, institutional  
leaders and policy  
makers working in the  
fields of sustainable

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agriculture and  
international  
development, and also at  
agroecologists,  
conservation scientists,  
and those working on  
ecosystem services.

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This book is devoted to a fundamental understanding of the fluid dynamic nature of a bubble wake, more specifically the primary wake, in liquids and

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liquid-solid  
suspensions, and to the  
role it plays in various  
important flow phenomena  
of multiphase systems.  
Examples of these  
phenomena are

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liquid/solids mixing,  
bubble coalescence and  
disintergration,  
particle entrainment to  
the freeboard, and bed  
contraction.

Cilia

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Magnetic Domains

Automotive Engineering

International

PC Magazine

No-tillage Seeding in

Conservation Agriculture

Legged Robots that

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Balance

*This book is a much-expanded and updated edition of a previous volume, published in 1996 as "No-tillage Seeding: Science and Practice". The base objective remains to describe, in lay terms, a range of international*

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*experiments designed to examine the causes of successes and failures in no-tillage. The book summarizes the advantages and disadvantages of no tillage and highlights the pros and cons of a range of features and options, without promoting any*

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*particular product.*

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*measurements in the field and  
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*Biological sciences*

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Running Cockroaches*

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*Whip spiders (Amblypygi)  
can be large and*

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*terrifying animals with strong, raptorial pedipalps and long antenniform first legs that can produce a span of as much as 60 cm. Others are small and scarcely*

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*span 5 cm. They all lead a secretive nocturnal life and are extremely dangerous to other arthropods and small vertebrates. In contrast to spiders and scorpions,*

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*they are of no commercial,  
economic or medical  
importance and they are  
difficult to study in the  
field because of their  
nocturnal habits, possible  
reasons why they have been*

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*greatly neglected until recently, by scientists and naturalists. Whip spiders represent an old group that dates back to the Carboniferous period. Their partly primitive and*

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*partly derived  
morphological characters  
and habits make the study  
of these animals  
interesting, while  
observation of their  
behaviour greatly*

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*increases our knowledge  
and understanding of  
arachnids in general. In  
this book the author  
describes their morphology  
and systematics, their  
life history, their*

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*fascinating sensory  
biology, their complex  
mating dances and  
reproductive biology, and  
their ecology and  
distribution. Thus he has  
made a significant*

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*contribution to a better  
understanding of the  
morphology and biology of  
the Arachnida as a whole.  
Whip Spiders is an  
outstanding contribution  
to science and it will be*

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with an interest in  
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episodes. Distinguished  
Team of International  
Contributors In addition  
to addressing the  
groundbreaking technical*

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*discoveries derived from  
brain-imaging studies  
related to thalamic pain.  
Translational Pain  
Research covers the  
progress made toward  
bringing laboratory*

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*science (much of it at the molecular level) to our understanding of pain phenomena in humans, with the ultimate goal of reducing the suffering that often accompanies*

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*pain and its indirect  
consequences.*

*Volume is indexed by  
Thomson Reuters CPCI-S  
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comprise fully-refereed  
papers presented at the*

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*conference. The main conference theme was Mechanical and Aerospace Engineering, and the main goal of the event was to provide an international scientific forum for the*

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*exchange of new ideas in a number of fields and for in-depth discussions with peers from around the world. Core areas of mechanical and aerospace engineering are covered,*

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*together with  
multidisciplinary,  
interdisciplinary research  
and applications; thus  
making the work an  
excellent guide to those  
topics.*

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**aspects of the problem that have played a minor role in most previous work. His studies focus on the central issues of balance and dynamic control, while avoiding several problems that have dominated previous**

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**research on legged  
machines. Marc Raibert is  
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Robotics at Carnegie-Mellon  
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**Research. Legged Robots That  
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Robotics, and the Use of A.I. in Robotics. The intended readership includes participants of CLAWAR 2022 conference, international robotic researchers, scientists, and professors of related topics worldwide, and professors and

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students of postgraduate courses in Robotics and Automation, Control Engineering, Mechanical Engineering, and Mechatronics. Volume is indexed by Thomson Reuters CPCI-S (WoS). The present work presents up-to-date

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contributions to the field of mechanisms, mechanical transmissions, robotics and mechatronics. The topics covered are: kinematics, dynamics, analysis and synthesis, mechanical design, sensors and

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actuators, intelligent control systems and related applications in planar and spatial mechanisms and mechanical transmissions, biomechanics, serial and parallel robots, mobile robots, tele-operation, haptics, virtual reality

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and precision mechanics. The results reported here should be of interest to researchers, scientists, industrial experts, teachers and students in the fields of engineering as related to design, control and applications.

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Active touch can be described as the control of the position and movement of tactile sensing systems to facilitate information gain. In other words, it is finding out about the world by reaching out and exploring—sensing by

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'touching' as opposed to 'being touched'. In this Research Topic (with cross-posting in both Behavioural Neuroscience and Neurorobotics) we welcomed articles from junior researchers on any aspect of active touch. We

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were especially interested in articles on the behavioral, physiological and neuronal underpinnings of active touch in a range of species (including humans) for submission to *Frontiers in Behavioural*

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Neuroscience. We also welcomed articles describing robotic systems with biomimetic or bio-inspired tactile sensing systems for publication in *Frontiers in Neurorobotics*.  
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phenomenon, which*

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*continues to remain  
undertreated in the  
majority of affected  
patients thus representing  
a significant unmet  
medical need, but the  
development of cellular,*

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*subcellular, and molecular methods of approaching this epidemic of pain shows great promise. In Analgesia: Methods and Protocols, experts in the field present thorough*

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scientists and clinicians  
who are interested in what  
the increasingly molecular  
future has in store for  
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*the art. Furthermore, the remaining important issues are identified for further developments. Haptic optical tweezers will soon become an invaluable tool for force feedback*

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*micromanipulation of  
biological samples and  
nano- and micro-assembly  
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## ***Proceedings***

This book offers systematic and up-to-date treatment of the whole area of magnetic domains. It contains many contributions that have not been published before. The

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comprehensive survey of this important area gives a good introduction to students and is also interesting to researchers.

From the big bang to black holes, this fast-paced

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astronomy and astrophysics. Before the big bang, time, space, and matter didn't exist. In the 14 billion years since, scientists have pointed their telescopes upward, peering outward in space and

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backward in time, developing and refining theories to explain the weird and wonderful phenomena they observed. Through these observations, we now understand concepts like the

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size of the universe (still expanding), the distance to the next-nearest star from earth (Alpha Centauri, 26 trillion miles) and what drives the formation of elements (nuclear fusion), planets and galaxies

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(gravity), and black holes (gravitational collapse). But are these cosmological questions definitively answered or is there more to discover? Oxford University astrophysicist and popular

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Why does gravity matter? How

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Measuring Metabolic Rates

Methods and Protocols

Mechanical and Aerospace  
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This volume looks into the need for a  
variety of experimental models for

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research on traumatic brain injury (TBI) and peripheral nervous system. It also describes a number of experimental models, such as mechanical devices, that have been developed to model neurotrauma in animal experiments. The overall aim of this book is to explore the variety of

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models and how they are used in current research. The chapters in this book are organized in four sections and talk about animal models for TBI; animal models for spinal cord or nerve injury; and translational aspects, secondary injuries, in vitro studies, and evaluation of large data sets. In

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Neuromethods series style, chapters include the kind of detail and key advice from the specialists needed to get successful results in your laboratory. Cutting-edge and comprehensive, Animal Models of Neurotrauma is a valuable resource for researchers interested in

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expanding their knowledge and  
research in this developing field.

Jane's International Defense Review