

# Lebiez Electrostatic Machine

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 Repertorium der technischen journal-literatur  
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*Lebiez Electrostatic Machine*

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## DIAMOND KENYON

**Breast Elastography** American Institute of Physics  
 Annotation A lively and entertaining study of early electrical technology, this book brings to life the technologies and inventors--most notably Benjamin Franklin--who forged the way for our modern electrical world.

Repertorium der technischen journal-literatur Newnes  
 Introduction -- Founded on cheese -- Scenes in the story -- Frank and his family -- A life of science -- Electrical science and engineering 1810-19 -- Who invented the electric telegraph? -- The grand tour -- A sulphur business opportunity? -- Perspective tracing instruments -- Dr Alexander Blair and the Carnac megaliths -- Science exhibitions: a glimpse into Ronalds' mechanical inventions 1824-41 -- Kew Observatory 1842-55 and beyond -- Atmospheric electricity and meteorology: instruments and observations -- Photographic recording instruments for meteorology and geomagnetism -- Last years and legacy.  
*Systems and methods for reducing electrostatic charge in a ...*  
 Univ of California Press

This essential book is a unique, authoritative and clinically oriented text on pediatric ultrasound. It provides up-to-date information addressing all aspects of congenital and acquired disorders in children encountered in clinical practice. The easy-to-navigate text is divided into 20 chapters. Each chapter is organized to cover the latest ultrasound techniques, normal development and anatomy, anatomic variants, key clinical presentations, characteristic ultrasound imaging findings, differential diagnoses and relevant pitfalls. With more than 2400 images, examples of new technological developments such as contrast-enhanced ultrasound and elastography are included. Written by internationally known pediatric radiology experts and editorial team lead by acclaimed authors, Harriet J. Paltiel, MDCM and Edward Y. Lee, MD, MPH, this reference is a practical and ideal guide for radiologists, radiology trainees, ultrasound technologists as well as clinicians in other specialties with an interest in pediatric ultrasound.

**Synchronous machines** MIT Press (MA)

The technology underground is a thriving, humming, and often literally scintillating subculture of amateur inventors and scientific envelope-pushers who dream up, design, and build machines that whoosh, rumble, fly—and occasionally hurl pumpkins across enormous distances. In the process they astonish us with what is possible when human imagination and ingenuity meet nature's forces and materials. William Gurstelle spent two years exploring the most fascinating outposts of this world of wonders: meeting and talking to the men and women who care far more for the laws of physics than they do for mundane matters like government regulations and their own personal safety. *Adventures from the Technology Underground* is Gurstelle's lively and weirdly compelling report of his travels. In these pages we meet Frank Kosdon and others who draw the scrutiny of the FAA, ATF, and other federal agencies in their pursuit of high-power amateur rocketry, which they demonstrate to impressive—and sometimes explosive—effect at the annual LDERS gathering held in various

remote and unpopulated areas (a necessary consideration since that acronym stands for Large Dangerous Rocket Ships). Here also are the underground technologists who turn up at the Burning Man festival in the Nevada high desert, including Lucy Hosking, "the engineer from Hell" and the creator of Satan's Calliope, aka the World's Loudest Thing, a pipe organ made from jet engines. Also at Burning Man is Austin "Dr. MegaVolt" Richard, who braves the arcing, sputtering, six-digit voltages of a giant Tesla coil in his protective metal suit. Add in a trip to see medieval-style catapults, air cannons, and supersized slingshots in action at the World Championship Punkin Chunkin competition in Sussex County, Delaware, and forays to the postapocalyptic enclaves of the flamethrower builders and the future-noir pits of the fighting robots, and you have proof positive that the age of invention is still going strong. In the world of science and engineering, despite its buttoned-down image, there's plenty of fun, humor, and sheer wonder to be found at the fringes. *Adventures from the Technology Underground* takes you there. • Launch homemade high-power rockets. • Catapult pumpkins the better part of a mile. • Watch robot gladiators saw, flip, and pound one another into high-tech junk heaps. • Dazzle the eye with electrical discharges measured in the hundreds of thousands of volts. • Play with flamethrowers, potato guns, and other decidedly unsafe toys. . . . If this is your idea of fun, you'll have a major good time on this wild ride through today's Technology Underground. From the Burning Man festival in Nevada's high desert to the latest gathering of Large Dangerous Rocket Ship builders to Delaware's annual Punkin Chunkin competition (a celebration of "science, radical self-expression, and beer"), you'll meet the inspired, government-unregulated, and corporately unfettered men and women who operate at the furthest fringes of science, engineering, and wild-eyed arc welding, building the catapults, ultra-high-voltage electrical devices, incendiary artworks, fighting robots, and other machines that demonstrate what's possible when physics meets human ingenuity. Encyclopedia of Electrochemical Power Sources Crown Vols. for 1970-79 include an annual special issue called IEE reviews.

Elektrische machines Thieme

A practical how-to manual on breast elastography This comprehensive reference covers the principles and techniques used in performing breast elastography, an innovative imaging technology that can dramatically reduce the need for biopsies. The book begins with an introduction of the techniques, followed by sections on how to perform each technique and methods of interpretation, and concludes with more than 60 detailed case studies. Key Features: Includes case studies covering a wide range of breast pathologies and illustrating the use of all available elastography techniques to help radiologists obtain the best images for each pathology Covers all methods of breast elastography, including sheer wave and strain wave Contains more than 200 high-quality color images that demonstrate how to perform each technique Breast Elastography is an essential reference for all radiologists, residents and fellows, and sonographers involved in breast imaging and evaluation. The Great Physicists from Galileo to Einstein Courier Corporation

Professor Price has enlarged his widely known and influential study of science and the humanities to include much new material, extraordinarily broad in its range: from ancient automata, talismans and symbols, to the differences of modern science and technology. Science since Babylon is now more fascinating and useful than ever to anyone concerned with the humanistic understanding of science. Originating in a series of five public lectures delivered under the auspices of the history department at Yale University in 1959, this book is an investigation of the circumstances and consequences of certain vital decisions relating to scientific crises which have the world to its present state of scientific and technological development. Not just another book on "History of Science," it is a plea, an exemplification for a whole new range of studies to take its place in the territory between the humanities and the sciences. The chapter on "Diseases of Science" has received much public attention as an analysis of the present structure and probable future of the organization of science. The author documents his study with accounts of his own researches in his specific fields of interest, relating them to the "crises" which he believes to be of paramount importance.

The Edinburgh Encyclopædia Univ of California Press

This title is part of UC Press's Voices Revived program, which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice, reach, and impact. Drawing on a backlist dating to 1893, Voices Revived makes high-quality, peer-reviewed scholarship accessible once again using print-on-demand technology. This title was originally published in 1979.

Draw the Lightning Down Electret Scientific Company

An amazing genius and Professor at West Virginia University, Oleg Jefimenko wrote this unique book describing his experiments with Electrostatic Motors, carefully documenting with photographs and illustrations as well as explaining their construction, materials used and history. The publisher is honoured to present this new edition that includes everything from the original book plus articles written afterwards by Dr Jefimenko as well as current reviews.

Pediatric Ultrasound Cambridge University Press

Adventures from the Technology UndergroundCrown

**The Testing of Materials** Adventures from the Technology Underground

Originally published in the middle of the nineteenth century under the title *Electrical Experiments*, this book describes practically all basic electrostatic experiments, demonstrations, devices, and apparatus performed and invented since the time when the first electrostatic effects were noticed in antiquity up to about 1850. The book is unique in its comprehensiveness and provides the essential details for replicating over 400 electrostatic experiments and for reconstructing numerous electrostatic devices. Unfortunately, as is frequently the case with older books, the original editions of Franciss Electrical Experiments belong to the category of rare books hardly accessible now even to research scientists, to say nothing of students, teachers, engineers, amateur scientists, inventors, patent lawyers, and anyone else who may be interested in electrical science and in

electrostatics in particular. And yet, the utility of Franciss book to a wide circle of readers is even greater now than when the book was first written because electrostatics has now become a very practical science with many useful applications, and therefore for many persons a familiarity with its basic principles and techniques is now truly important. The purpose of the present edition of Franciss remarkable work is to make it readily available, easily noticeable, and appealing to as wide a circle of present-day readers interested in electrostatics as possible. To achieve the second of these three goals, the title of the book has been changed from Electrical Experiments to Electrostatic Experiments. The word electrical in the original title, perfectly appropriate in the middle of the nineteenth century when the book was first published, is misleading to present-day readers: the book deals exclusively with electrostatics, whereas electrical is now mostly understood as something relating to the electric current. Furthermore, the word encyclopedia has been incorporated in the subtitle of the book. The scope of the book is truly encyclopedic, and to call it encyclopedia is perfectly justified. To achieve the last of the above-mentioned goals, the book is printed in an entirely new format. Originally the book was printed in a very small typeface, was difficult to read, and its typographic quality was very poor. The illustrations (wood engravings) were very small. The present format is designed for easy readability and pleasing visual appearance. The book is now printed in 11 points Century Schoolbook typeface one of the most readable typefaces in existence. All 148 wood engravings originally contained in the book are enlarged. Both the paperback edition and the hardcover edition are printed on high quality paper. For better durability and ease of use the signatures are sawn together. The hardcover edition is bound in Skyvertex® -- a synthetic leather-like material. Some words and terms used in the book have now either disappeared from the English language or have acquired a different meaning. Therefore the book has been now supplemented by a glossary explaining the most obscure or ambiguous words appearing in the book. Furthermore, taking into account that the most convenient presently-known generator of static electricity for performing electrostatic experiments is the Wimshursts influence machine, invented some thirty years after the publication of Franciss book, the book has been supplemented by a description of this machine. Finally, the book has been supplemented by some literature references.

#### **From Compass to Computer** Springer Nature

Written so as to be understood by the non-technical reader who is curious about the origin of all the electrical and electromagnetic devices that surround him, this history also provides a convenient compendium of information for those familiar with the electrical

and magnetic fields. The book moves along at a rapid pace, as it must if it is to cover the enormous proliferation of developments that have occurred during the last hundred years or so. The author has struck a workable balance between the human side of his story, introducing those biographical details that help advance it, and its technical side, explaining theories and "how things work" where this seems appropriate. He also achieves a balance in recounting the discovery of basic scientific principles and their technological applications--the myriad of devices and inventions that utilize energy and information in electromagnetic form. Indeed, one of the important themes of the book is the close and reciprocal relationship between science and technology, between theory and practice. Before approximately 1840, the purely scientific investigations of electrical and magnetic phenomena were largely "ad hoc" and observational, and essentially no technology based on them existed. Afterwards, the scientific explorations became more programmatic and mathematical, and technical applications and inventions began to be produced in great abundance. In return, this technology paid its debt to pure science by providing it with a series of measuring instruments and other research devices that allowed it to advance in parallel. Although this book reviews the early discoveries, from the magnetic lodestone and electrostatic amber of antiquity to Galvani's frog's legs and Franklin's kite-and-key of the 1700s, its major emphasis is on the post-1840 developments, as the following chapter titles will confirm: Early Discoveries--Electrical Machines and Experiments with Static Electricity--Voltaic Electricity, Electrochemistry, Electromagnetism, Galvanometers, Ampere, Biot and Savart, Ohm--Faraday and Henry--Direct Current Dynamos and Motors--Improvements in Batteries, Electrostatic Machines, and Other Older Devices--Electrical Instruments, Laws, and Definitions of Units--The Electric Telegraph--The Atlantic Cable--The Telephone--Electric Lighting--Alternating Currents--Electric Traction--Electromagnetic Waves, Radio, Facsimile, and Television--Microwaves, Radar, Radio Relay, Coaxial Cable, Computers--Plasmas, Masers, Lasers, Fuel Cells, Piezoelectric Crystals, Transistors--X-Rays, Radioactivity, Photoelectric Effect, Structure of the Atom, Spectra. Static electric machine. Integrity Research Institute The Encyclopedia of Electrochemical Power Sources is a truly interdisciplinary reference for those working with batteries, fuel cells, electrolyzers, supercapacitors, and photo-electrochemical cells. With a focus on the environmental and economic impact of electrochemical power sources, this five-volume work consolidates coverage of the field and serves as an entry point to the literature for professionals and students alike. Covers the main types of power sources, including their operating principles,

systems, materials, and applications Serves as a primary source of information for electrochemists, materials scientists, energy technologists, and engineers Incorporates nearly 350 articles, with timely coverage of such topics as environmental and sustainability considerations

**Electrostatic Motors** New Haven and London : Yale University Press

Includes the Society's list of officers, members, and associates.

#### **Electrostatic Experiments**

The aim of the course was to provide state-of-the-art information in the field of advanced devices for large scale integrated photonics. The course focused on the theory and application of optical microresonators for wavelength selection and routing, for switching and for high-speed modulation. Also materials aspects, design and manufacturing of integrated optics devices based on these resonators for use in optical communication networks were discussed. In particular, micro-ring and micro-disk resonators and photonic band-gap structures were addressed. At a more fundamental level, some lectures were devoted to promising phenomena that could allow new applications in photonics, such as entangled pairs generation and single quantum dot emission in a cavity.

This concise introduction to the history of physical science in the Middle Ages begins with a description of the feeble state of early medieval science and its revitalization during the twelfth and thirteenth centuries, as evidenced by the explosion of knowledge represented by extensive translations of Greek and Arabic treatises. The content and concepts that came to govern science from the late twelfth century onwards were powerfully shaped and dominated by the science and philosophy of Aristotle. It is, therefore, by focussing attention on problems and controversies associated with Aristotelian science that the reader is introduced to the significant scientific developments and interpretations formulated in the later Middle Ages. The concluding chapter presents a new interpretation of the medieval failure to abandon the physics and cosmology of Aristotle and explains why, despite serious criticisms, they were not generally repudiated during this period. As detailed critical bibliography completes the work. Journal of the Society of Telegraph Engineers and of Electricians Includes annual report of its council (1941-48, in pt. 1).

#### **Electrical World**

The distinguished scientist and author traces the development of physics from the age of the ancient Greeks to modern particle physics, offering fascinating biographical and historical data. 136 illustrations.

*Microresonators as Building Blocks for VLSI Photonics*  
A History of Electricity and Magnetism

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