

SEM Hitachi S-4700 user manual

English Version by Eric, VDEC, Mita Lab, 2015/01/27

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1. Warnings and recommendations

Be sure to read the following remarks:

- 1.1. This equipment belongs to VAN Partners. Let's handle it with much care.
- 1.2. Before exchanging the sample, always check that the stage is in its initial position:
 $X = Y = 12.5\text{mm}$, $Z = 12\text{mm}$, Tilt = 0° , $\theta = 0^\circ$
- 1.3. This is a simplified manual. It is recommended to read and study the original manual.

2. Terms

- 2.1. RP = Rotary Pump,
- 2.2. IP = Ion Pump,
- 2.3. DP = oil Diffusion Pump,
- 2.4. S.C. = Specimen Chamber = main chamber,
- 2.5. S.E.C. = Specimen Exchange Chamber = Load lock chamber.

3. Regular State

Always ON. RP and DP maintain vacuum in the main chamber and IP maintain vacuum in the column.

4. Points to check before starting

If there is an abnormality, contact the person in charge.

On the front panel (below the S.C.), check from left to right:

- 4.1. EVAC POWER
 - 4.1.1. Switch is ON,
 - 4.1.2. DP/TMP, WATER and AIR PRES switched ON (green lamps ON)
- 4.2. OBJ. APT. → position HEAT
- 4.3. ION PUMP VACUUM
 - 4.3.1. Lamps IP1, IP2, and IP3 lighted ON,
 - 4.3.2. Check the IPs vacuum values by rotating the knob. The following should be satisfied:
 $IP1 < 2e-7\text{Pa}$, $IP2 < 2e-6\text{Pa}$, $IP3 < 7e-5\text{Pa}$. Fill out the log with the values.
- 4.4. CHAMBER VACUUM → S.C and S.E.C vacuum are HIGH (green lamps)
- 4.5. VALVE → GUN switch in position CLOSE. If not, set it to CLOSE
- 4.6. CHAMBER → switch on S.E.C. (should be protected with a tape)
- 4.7. If you want to use the cold trap, check that there is more than 1.3L of liquid nitrogen in the Dewar Vessel. If this is not the case, fetch some nitrogen in CR2.

5. Preparation

- 5.1. Turn PC on
 - 5.1.1. DISPLAY switch ON (under the PC desk, behind the door),
 - 5.1.2. Windows 95 will startup.
 - 5.1.3. Press CTRL+ALT+DEL.
 - 5.1.4. Launch PC-SEM.exe. There is no password, just click OK,
 - 5.1.5. When the soft start, a dialog showing the X and Y values of the stage appears. Check the real values of X and Y, enter those values in the box and then click OK,
- 5.2. Filling liquid nitrogen
If you want to use the cold trap, fill it with 1.3L of liquid nitrogen.
- 5.3. Set the sample
 - 5.3.1. Select a suitable sample holder,

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Robert R. Redfield



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Ultra-Clean Technology Handbook Ohmi,1993-06-29 Evaluating the effectiveness of conventional wet processes for cleaning silicon wafers in semiconductor production this reference reveals concrete measures to improve ultrapure water quality reviewing the structure and physical characteristics of ultrapure water molecules The volume is divided into

Handbook of Clay Science ,2013-07-23 The first edition of the Handbook of Clay Science published in 2006 assembled the scattered literature on the varied and diverse aspects that make up the discipline of clay science The topics covered range from the fundamental structures including textures and properties of clays and clay minerals through their environmental health and industrial applications to their analysis and characterization by modern instrumental techniques Also included are the clay microbe interaction layered double hydroxides zeolites cement hydrates and genesis of clay minerals as well as the history and teaching of clay science The 2e adds new information from the intervening 6 years and adds some important subjects to make this the most comprehensive and wide ranging coverage of clay science in one source in the English language Provides up to date comprehensive information in a single source Covers applications of clays as well as the instrumental analytical techniques Provides a truly multidisciplinary approach to clay science **Prospects and**

Applications for Plant-Associated Microbes, A laboratory manual Seppo Sorvari,Anna Maria Pirttilä,2014-12-15 Research on the microbial colonization of the aerial and subterranean tissues of plants has shown an extensive scale of interactions between the hosts and a range of microbes including bacteria and fungi Intercellular spaces vascular systems and even single cells can be inhabited by these endophytic microbes Of the bacterial endophytes only a small percentage is harmful to the plant most are neutral opportunistic or beneficial These plant based bacteria can have various important functions throughout the life cycle of the plant some promote plant growth and development others protect the plant from diseases This ability to be able to protect plants from diseases has catalyzed numerous laboratories to search for new bacteria that could be utilized instead of the traditional plant protective agents Because two or more interacting organisms are involved research and the eventual application of suitable bio controlling microbes are challenging and often require specific skills and equipment The purpose of this book is to provide a comprehensive review for those who are interested in the research and biotechnological applications of plant associated bacteria It also provides a compilation of current work conducted on plant bacteria interactions Technical Manual for Design and Construction of Road Tunnels--civil Elements

,2010 The increased use of underground space for transportation systems and the increasing complexity and constraints of constructing and maintaining above ground transportation infrastructure have prompted the need to develop this technical manual This FHWA manual is intended to be a single source technical manual providing guidelines for planning design construction and rehabilitation of road tunnels and encompasses various types of road tunnels P ix **Prospects and**
Applications for Plant-Associated Microbes, A laboratory manual Anna Maria Pirttilä,Seppo Sorvari,2014-12-15 Plant

associated microbes are ubiquitous organisms living in a range of interactions with their host Involving two organisms research and applications of plant microbes are challenging and often require specific skills This book guides the reader in the world of plant associated fungi giving both theoretical and practical insight on the potential of this interaction in biotechnology Detailed instructions and step by step protocols are described for isolation identification localization and community analysis of fungi studies on their bioactivity molecular plant fungal interactions and development of fungi as tools for biotechnology

Nanofabrication Zheng Cui, 2016-08-10 This second edition of Nanofabrication is one of the most comprehensive introductions on nanofabrication technologies and processes A practical guide and reference this book introduces readers to all of the developed technologies that are capable of making structures below 100nm The principle of each technology is introduced and illustrated with minimum mathematics involved Also analyzed are the capabilities of each technology in making sub 100nm structures and the limits of preventing a technology from going further down the dimensional scale This book provides readers with a toolkit that will help with any of their nanofabrication challenges

Handbook of VLSI Microlithography William B. Glendinning, John N. Helbert, 2012-12-02 This handbook gives readers a close look at the entire technology of printing very high resolution and high density integrated circuit IC patterns into thin resist process transfer coatings including optical lithography electron beam ion beam and x ray lithography The book's main theme is the special printing process needed to achieve volume high density IC chip production especially in the Dynamic Random Access Memory DRAM industry The book leads off with a comparison of various lithography methods covering the three major patterning parameters of line space resolution line edge and pattern feature dimension control The book's explanation of resist and resist process equipment technology may well be the first practical description of the relationship between the resist process and equipment parameters The basics of resist technology are completely covered including an entire chapter on resist process defectivity and the potential yield limiting effect on device production Each alternative lithographic technique and testing method is considered and evaluated basic metrology including optical scanning electron microscope SEM techniques and electrical test devices along with explanations of actual printing tools and their design construction and performance The editor devotes an entire chapter to today's sophisticated complex electron beam printers and to the emerging x ray printing technology now used in high density CMOS devices Energetic ion particle printing is a controllable steerable technology that does not rely on resist and occupies a final section of the handbook

Integrated Circuit Metrology, Inspection, and Process Control, 1995 *Metal Resistance in Microorganisms* Rob Van Houdt, Jon L. Hobman, Raymond J. Turner, Jean-Yves Matroule, 2022-05-03

VLSI Technology Yasuo Tarui, 2013-03-12 The origin of the development of integrated circuits up to VLSI is found in the invention of the transistor which made it possible to achieve the action of a vacuum tube in a semiconducting solid The structure of the transistor can be constructed by a manufacturing technique such as the introduction of a small amount of an impurity into a semiconductor and in addition most transistor

characteristics can be improved by a reduction of dimensions These are all important factors in the development Actually the microfabrication of the integrated circuit can be used for two purposes namely to increase the integration density and to obtain an improved performance e.g. a high speed When one of these two aims is pursued the result generally satisfies both We use the English translation very large scale integration VLSI for Cho LSI in Japanese In the United States of America however similar technology is being developed under the name very high speed integrated circuits VHSI This also originated from the nature of the integrated circuit which satisfies both purposes Fortunately the Japanese word Cho LSI has a wider meaning than VLSI so it can be used in a broader area However VLSI has a larger industrial effect than VHSI

1999 Proceedings, 1999 Recent Advances in Technology Research and Education Yukinori Ono, Jun Kondoh, 2024-02-29 This book presents the 20th edition of the Inter Academia Conference which aims to be a valuable resource for academic institutions in search for novel approaches for a global education for industry partners exploring new fundamental research ideas for government bodies seeking international projects that promote sustainable growth and most certainly for the global scientific community more and more invested in the multi-disciplinarity of modern research Interdisciplinary research collaboration is crucial for solving many pressing issues and challenges facing society today Bringing together researchers and educators from different disciplines allows a more holistic understanding of complex problems providing also the opportunity for new learning and for collaboration on complex projects Beyond its scientific merits and value Inter Academia also promotes a culture of intellectual diversity innovative thinking and global perspective that can foster breakthrough discoveries unexpected advancements in research and last but not least a sense of belonging to a global community Being established in 2002 the Inter Academia Community currently gathers researchers from 14 leading Universities in Eastern and Central Europe together with Shizuoka University in Japan As such the Inter Academia Community serves as a strong bond across continents allowing the development of a number of global projects for student and researcher mobility with a significant impact on the broader scientific community The peer reviewed papers included in this book hopefully stimulate further interactions and collaborations covering both fundamental and applied research with benefits for the global society Handbook of Snow Donald Maurice Gray, David Harold Male, 1981 Reference text with sections on snow and the environment snowfall and snowcover snow and engineering snow and recreation skiing

Advanced Functional Materials Yafang Han, 2018-04-19 This proceedings volume gathers selected papers presented at the Chinese Materials Conference 2017 CMC2017 held in Yinchuan City Ningxia China on July 06-12 2017 This book covers a wide range of metamaterials and multifunctional composites multiferroic materials amorphous and high entropy alloys advanced glass materials and devices advanced optoelectronic and microelectronic materials biomaterials deformation behavior and flow units in metastable materials advanced fibers and nano composites polymer materials and nanoporous metal materials The Chinese Materials Conference CMC is the most important serial conference of the Chinese Materials

Research Society C MRS and has been held each year since the early 1990s The 2017 installment included 37 Symposia covering four fields Advances in energy and environmental materials High performance structural materials Fundamental research on materials and Advanced functional materials More than 5500 participants attended the congress and the organizers received more than 700 technical papers Based on the recommendations of symposium organizers and after peer reviewing 490 papers have been included in the present proceedings which showcase the latest original research results in the field of materials achieved by more than 300 research groups at various universities and research institutes Istfa 2003 ASM International,2003-01-01 **Computational Modelling of Concrete Structures** Günther Meschke,Bernhard Pichler,Jan G. Rots,2018-01-31 The EURO C conference series Split 1984 Zell am See 1990 Innsbruck 1994 Badgastein 1998 St Johann im Pongau 2003 Mayrhofen 2006 Schladming 2010 St Anton am Arlberg 2014 and Bad Hofgastein 2018 brings together researchers and practising engineers concerned with theoretical algorithmic and validation aspects associated with computational simulations of concrete and concrete structures Computational Modelling of Concrete Structures reviews and discusses research advancements and the applicability and robustness of methods and models for reliable analysis of complex concrete reinforced concrete and pre stressed concrete structures in engineering practice The contributions cover both computational mechanics and computational modelling aspects of the analysis and design of concrete and concrete structures Multi scale cement and concrete research experiments and modelling Aging concrete from very early ages to decades long durability Advances in material modelling of plain concrete Analysis of reinforced concrete structures Steel concrete interaction fibre reinforced concrete and masonry Dynamic behaviour from seismic retrofit to impact simulation Computational Modelling of Concrete Structures is of special interest to academics and researchers in computational concrete mechanics as well as industry experts in complex nonlinear simulations of concrete structures **Manual**

Trabalhista das Plataformas Digitais André Gonçalves Zipperer,2024-07-19 Este livro foi construído a partir da perspectiva da chamada segunda era do trabalho plataformizado Se a primeira era mudou a forma como as pessoas contratam e trabalham com as plataformas ainda encontrando seu modelo estratégico construindo e ampliando seus mercados a segunda está transformando o negócio das plataformas definindo enquadramentos jurídicos e políticos públicos A partir do reconhecimento de que cabe ao Direito do Trabalho dentro dessa nova realidade avançar para estabelecer uma rede de proteção adequada a este novo trabalhador passou-se a avaliar como as novas relações se enquadram nos paradigmas postos Nesta obra foram investigadas as características do trabalho plataformizado enquanto realidade inserida em um contexto de intensa inovação tecnológica Traz-se conceitos e conceitos classificações além de uma abordagem de como sociedade e judiciário tem realizado a sua leitura sobre o tema São também abordadas questões sobre o algoritmo como ferramenta a legislação trabalhista sobre o tema no Brasil e no mundo e a aplicação da lei no espaço principalmente em atividades que ocorrem em ambiente puramente digital ou até mesmo transnacional Além disso consta desta obra um in-dito estudo jurídico que

analisou e catalogou mais de 14 mil as trabalhistas distribuídas no Brasil com detalhamento sobre geografia da distribuição e valores envolvidos. Extenso capítulo se propõe a responder o que uma plataforma digital também enquanto modelo de negócios e ajuda a trazer luz sobre a natureza jurídica da relação entre plataformas, trabalhadores e requerentes, um dos temas de maior debate no Direito do Trabalho atualmente e que tratado também de forma aprofundada. O livro traz suas conclusões sobre esta temática a partir de uma análise estritamente jurídica e pragmática considerando externalidades e modelos práticos.

Istc/cstic 2009 (cistic) David Huang, 2009-03. ISTC CSTIC is an annual semiconductor technology conference covering all the aspects of semiconductor technology and manufacturing including devices design, lithography, integration, materials, processes, manufacturing as well as emerging semiconductor technologies and silicon material applications. ISTC CSTIC 2009 was merged by ISTC International Semiconductor Technology Conference and CSTIC China Semiconductor Technology International Conference, the two industry leading technical conferences in China and consisted of one plenary session and nine technical symposia. This issue of ECS Transactions contains 159 papers from the conference.

Proceedings of the 9th International Symposium on Superalloy 718 & Derivatives: Energy, Aerospace, and Industrial Applications Eric Ott, Xingbo Liu, Joel Andersson, Zhongnan Bi, Kevin Bockenstedt, Ian Dempster, Jon Groh, Karl Heck, Paul Jablonski, Max Kaplan, Daisuke Nagahama, Chantal Sudbrack, 2018-05-12. This technical meeting will focus on Alloy 718 and Superalloys in this class relative to alloy and process development, production, product applications, trends and the development of advanced modeling tools. The symposium provides an opportunity for authors to present technical advancements relative to a broad spectrum of areas while assessing their impact on related fields associated with this critical alloy group. There are continuing innovations relative to these alloys as well as novel processing techniques which continue to extend applications in very challenging environments ranging from corrosion resistance in the deep sea to high stressed space applications.

The Archaeology of Caribbean and Circum-Caribbean Farmers (6000 BC - AD 1500) Basil Reid, 2018-05-16. Comprising 17 chapters and with a wide geographic reach stretching from the Florida Keys in the north to the Guianas in the south, this volume places a well needed academic spotlight on what is generally considered an integral topic in Caribbean and circum-Caribbean archaeology. The book explores a variety of issues including the introduction and dispersal of early cultivars, plant manipulation, animal domestication, dietary profiles and landscape modifications. Tried and true and novel analytical techniques are used to tease out aspects of the Caribbean and circum-Caribbean database that inform the complex and often subtle processes of domestication under varying socio-environmental conditions. Contributors discuss their findings within multiple constructs such as neolithisation, social interaction, trade, mobility, social complexity, migration, colonisation and historical ecology. Multiple data sources are used which include but are not restricted to rock art, cooking pits and pots, stable isotopes, dental calculus and pathologies, starch grains and proxies for past environmental conditions. Given its multi-disciplinary approaches, this volume should be of immense value to both researchers and students.

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