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CleanRooms CleanRooms Control of Particulate Matter Contamination in Healthcare Manufacturing Handbook of Pharmaceutical Manufacturing Formulations Handbook of Pharmaceutical Manufacturing Formulations, Third Edition Aerosol Measurement Cleanroom Technology ISO Catalogue HVAC Equations, Data, and Rules of Thumb, Third Edition Consulting-specifying Engineer ASHRAE Handbook Guidelines for Safe Handling of Powders and Bulk Solids Journal of the IES HVAC Equations, Data, and Rules of Thumb, 2nd Ed. Introduction to Contamination Control and Cleanroom Technology The United States pharmacopeia Journal of the IEST Annual Book of ASTM Standards Optical Systems Degradation, Contamination and Stray Light: Effects, Measurements, and Control Technical Report Series Thomas A. Barber Safaraz K. Niazi Sarfaraz K. Niazi Pramod Kulkarni William Whyte International Organization for Standardization Arthur A. Bell Stanley S. Grossel Arthur Bell Matts Ramstorp ASTM International Philip T. Chen

CleanRooms CleanRooms Control of Particulate Matter Contamination in Healthcare Manufacturing Handbook of Pharmaceutical Manufacturing Formulations Handbook of Pharmaceutical Manufacturing Formulations, Third Edition Aerosol Measurement Cleanroom Technology ISO Catalogue HVAC Equations, Data, and Rules of Thumb, Third Edition Consulting-specifying Engineer ASHRAE Handbook Guidelines for Safe Handling of Powders and Bulk Solids Journal of the IES HVAC Equations, Data, and Rules of Thumb, 2nd Ed. Introduction to Contamination Control and Cleanroom Technology The United States pharmacopeia Journal of the IEST Annual Book of ASTM Standards Optical Systems Degradation, Contamination and Stray Light: Effects, Measurements, and Control Technical Report Series *Thomas A. Barber Safaraz K. Niazi Sarfaraz K. Niazi Pramod Kulkarni William Whyte International Organization for Standardization Arthur A. Bell Stanley S. Grossel Arthur Bell Matts Ramstorp ASTM International Philip T. Chen*

a central resource of technology and methods for environments where the control of contamination is critical

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this book offers practical applications addressing the specifics of contamination including particle origination characterization identification and elimination with a special focus on quality considerations written by an industry expert this material offers a clear and concise understanding of particle populations and their control in stability efficacy and predictability in the manufacture of healthcare products complete with a full color insert of micrographs illustrating commonly encountered particulate matter and over eighty figures tables and charts features

no other area of regulatory compliance receives more attention and scrutiny by regulatory authorities than the regulation of sterile products for obvious reasons with the increasing number of potent products particularly the new line of small protein products joining the long list of proven sterile products the technology of manufacturing ster

the handbook of pharmaceutical manufacturing formulations third edition volume six sterile products is an authoritative and practical guide to the art and science of formulating drugs for commercial manufacturing with thoroughly revised and expanded content this sixth volume of a six volume set compiles data from fda and ema new drug applications patents and patent applications and other sources of generic and proprietary formulations including author s own experience to cover the broad spectrum of cgmp formulations and issues in using these formulations in a commercial setting a must have collection for pharmaceutical manufacturers educational institutions and regulatory authorities this is an excellent platform for drug companies to benchmark their products and for generic companies to formulate drugs coming off patent features largest source of authoritative and practical formulations cgmp compliance guidance and self audit suggestions differs from other publications on formulation science in that it focuses on readily scalable commercial formulations that can be adopted for cgmp manufacturing tackles common difficulties in formulating drugs and presents

details on stability testing bioequivalence testing and full compliance with drug product safety elements written by a well recognized authority on drug and dosage form development including biological drugs and alternative medicines

aerosol measurement principles techniques and applications third edition is the most detailed treatment available of the latest aerosol measurement methods drawing on the know how of numerous expert contributors it provides a solid grasp of measurement fundamentals and practices a wide variety of aerosol applications this new edition is updated to address new and developing applications of aerosol measurement including applications in environmental health atmospheric science climate change air pollution public health nanotechnology particle and powder technology pharmaceutical research and development clean room technology integrated circuit manufacture and nuclear waste management

a self contained and practical book providing step by step guidance to the design and construction of cleanrooms appropriate testing methodologies and operation for the minimization of contamination this second edition has been comprehensively revised and includes extensive updates to the two chapters that contain information on cleanroom standards and guidelines the chapter on risk management has been extensively revised especially the section on risk assessment other new subjects that have been added to the various chapters are those on clean build determination of air supply volumes for non unidirectional airflow cleanrooms rabs restricted access barrier systems contamination recovery test methods entry of large items into a cleanroom glove allergy problems and how to develop a cleanroom cleaning programme used for in house training and a textbook in colleges this volume is for cleanroom personnel at all levels it provides novices with an introduction to the state of the art technology and professionals with an accessible reference to the current practices it is particularly useful in the semiconductor pharmaceutical biotechnology and life sciences industries william whyte is an international authority in cleanrooms with over 45 years experience in research teaching and consulting in the electronic healthcare and pharmaceutical industries he is a member of british and international standards committees writing the international cleanroom standards and has received numerous awards for his work in cleanroom technology a comment on the first edition extremely useful and helpful very well written highly

organized easy to understand and follow environmental geology 2003

this comprehensive volume often called the hvac bible has been thoroughly updated to cover the latest code changes equipment and techniques hvac equations data and rules of thumb 3e offers all of the information an hvac student or professional needs in one resource the book thoroughly explains the expansion of piping systems and temperature limitations of new materials such as polyethylene polypropylene pvc cpvc and pex detailed information is included for all types of facilities including offices hotels hospitals restaurants commercial spaces and computer rooms this practical handbook reflects all the latest code changes including the ashrae standards and explains how to interpret and put them to use it includes completely updated coverage of new pumps chillers air handling units cooling equipment boilers and pipe material you will get complete coverage of sustainability organizations that have become more important since last edition including leed usgbc energy star features hundreds of equations and rules for everything from ductwork to air handling systems includes a brand new chapter on sound vibration and acoustics contains an updated list of equipment manufacturers for all products featured

powders and bulk solids handled widely in the chemical pharmaceutical agriculture smelting and other industries present unique fire explosion and toxicity hazards indeed substances which are practically inert in consolidated form may become quite hazardous when converted to powders and granules the u s chemical safety and hazard investigation board is currently investigating dust explosions that occurred in 2003 at westpharma cta acoustics and hayes lemmerz and is likely to recommend that companies that handle powders or whose operations produce dust pay more attention to understanding the hazards that may exist at their facility this new ccps guidelines book will discuss the types of hazards that can occur in a wide range of process equipment and with a wide range of substances and will present measures to address these hazards

the latest information and tricks of the trade for achieving first rate hvac designs on any construction job hvac equations data and rules of thumb presents a wealth of state of the art hvac design information and guidance ranging from air distribution to piping systems to plant equipment this

popular reference has now been fully updated to reflect the construction industry's new single body of codes and standards featuring an outline format for ease of use the second edition of this all in one sourcebook contains updated hvac codes and standards including the 2006 international building code over 200 equations for everything from ductwork to air handling systems asme and ashrae code specifications over 350 rules of thumb for cooling heating ventilation and more new material including coverage of the new single body of construction codes now used throughout the country inside this updated hvac design guide definitions equations rules of thumb for cooling heating infiltration ventilation humidification people occupancy lighting and appliance equipment cooling load factors heating load factors design conditions and energy conservation hvac system selection criteria air distribution systems piping systems general hydronic glycol steam steam condensate ac condensate refrigerant central plant equipment air handling units chillers boilers cooling towers heat exchangers auxiliary equipment fans pumps motors controllers variable frequency drives filters insulation fire stopping automatic controls building automation systems equipment schedules equipment manufacturers building construction business fundamentals architectural structural and electrical information conversion factors properties of air and water designer's checklist professional societies and trade organizations references and design manuals cleanroom criteria and standards

contamination control is being used by more and more industries where the highest level of cleanliness and hygiene is of vital importance this book covers the basic principles of contamination control and cleanroom technology from a holistic point of view it deals with cleanliness and hygiene and their effects on the outcome of a process reflecting the latest results from both scientific and practical points of view the following topics are covered contaminants and how they are measured cleanrooms and clean zones cleaning and decontamination cleanroom clothing the impact of people on cleanliness intended as an introduction to the area of contamination control the text is also an excellent source of knowledge for people with both theoretical and practical experience the swedish version has been used for a long time within the nordic countries as a basic training textbook within the pharmaceutical microelectronics food and beverage optics and many other industries

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