

Introduction To Architectural Science

Introduction to Architectural Science Introduction to Architectural Science Introduction to Architectural Science Architectural Science and the Sun Introduction to Architectural Science The Architecture of Science The Architecture Reference & Specification Book Updated & Revised Architectural Aerodynamics Attunement Dense + Green GROSS IDEAS Sustainability, Energy and Architecture Introduction to Architectural Science Architecture and Field/Work Architectural Technology Up to the Scientific Revolution The Evolution of Designs Architecture Depends Thermal Design of Buildings Advanced Architectural Design and Construction Proportion Surface Architecture Introduction to Architectural Science Environmental Design Introduction to Architectural Science Design-Tech The Architecture of Persistence Architecture and Embodiment Architectural Research Methods Mind in Architecture Lectures on Materials Science for Architectural Conservation Ways to Study and Research Urban, Architectural and Technical Design Architecture and the Crisis of Modern Science Swan and Maclaren Architecture for the Commons Psychology of Architectural Design Architectural Hygiene Architecture from the Outside Latour for Architects Activist Architecture Steven Szokolay Steven Szokolay Steven V Szokolay Dason Whitsett Steven V. Szokolay Peter Galison Julia McMorrough Richard M. Aynsley Alberto Perez-Gomez Thomas Schröpfer Ali Sayigh S. V. Szokolay Suzanne Ewing Robert Mark Philip Steadman Jeremy Till Steven Vajk Szokolay Milan Palko Richard Padovan David Leatherbarrow Elsevier Science & Technology Randall Thomas S. V. Szokolay Jason Alread David Fannon Harry Francis Mallgrave Linda N. Groat Sarah Robinson Giorgio Torraca T.M. de Jong Alberto Pérez Gómez Julian Davison Jose Sanchez Ömer Akin Banister Flight Fletcher Elizabeth Grosz Albena Yaneva

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Flight Fletcher Elizabeth Grosz Albena Yaneva*

now in its third edition this book provides the ideal and only reference to the physical basis of architectural design fully updated and expanded throughout the book provides the data required for architects to design buildings that will maintain the users comfort in a variety of conditions with minimal reliance on energy intensive methods like air conditioning this is not a how to book but answers the question why it equips the reader with the tools to realize the full potential of the good intentions of sustainable bioclimatic design all sections have been revised and updated for this third edition including all the most relevant developments affecting heat light and sound controls the book responds to the need of understanding beyond rules of thumb

by introducing the basics of architectural science this book is an ideal reference that provides an understanding of the physical basis of architectural design the knowledge gained from this book equips the reader with the tools for realizing the full potential of the good intentions of sustainable bioclimatic design the text gives the reader the knowledge to design in order to control indoor environmental conditions heat light and sound into this discussion is introduced the problem that traditional energy resources are finite and their use damaging and governments and professional bodies demand increasing levels of sustainable design an outline is provided for creating the required indoor conditions with little or no use of energy other than from renewable sources each chapter presents a quick outline of the basic and relevant physics of heat light sound and energy followed by an examination of human requirements the reader is then introduced to ways in which these elements can be controlled by the building and by its design

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including more information on small scale energy generation methods and techniques the book has also been reformatted to be even more accessible with a larger page size and colour printing

architectural science and the sun synthesizes physics climate program and perception to provide a foundation in the principles of architectural science related to the sun solar geometry solar analysis and design techniques passive design principles and daylighting part analytical handbook part inspiration source for schematic design the content comprises a critical component of effective sustainable design beyond the purely technical aspects of these topics architectural science and the sun begins with the premise that great architecture goes beyond energy performance and the visual aesthetic to engage all of the senses given that the stimuli to which our senses respond are physical phenomena such as light heat and sound the designer must manipulate these parameters through the craft of building form and technology to create the desired qualitative experience this book is designed to help the reader develop that skill

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how do the spaces in which science is done shape the identity of the scientist and the self conception of scientific fields how do the sciences structure the identity of the architect and the practice of architecture in a specific period and how does the design of spaces such as laboratories hospitals and museums affect how the public perceives and interacts with the world of science

most architectural standards references contain thousands of pages of details overwhelmingly more than architects need to know to know on any given day the updated and revised edition of architecture reference specification contains vital information that s essential to planning and executing architectural projects of all shapes and sizes all in a format that is small enough to carry anywhere it distills the data provided in standard architectural volumes and is an easy to use reference for the most indispensable and most requested types of architectural information

how architecture can move beyond the contemporary enthusiasms for the technically sustainable and the formally dazzling to enhance our human values and capacities architecture remains in crisis its social relevance lost between the two poles of formal innovation and technical sustainability in attunement alberto pérez gómez calls for an architecture that can enhance our human values and capacities an architecture that is connected attuned to its location and its inhabitants architecture pérez gómez explains operates as a communicative setting for societies its beauty and its meaning lie in its connection to human health and self understanding our physical places are of utmost importance for our well being drawing on recent work in embodied cognition pérez gómez argues that the environment including the built environment matters not only as a material ecology but because it is nothing less than a constituent part of our consciousness to be fully self aware we need an external environment replete with meanings and emotions pérez gómez views architecture through the lens of mood and atmosphere linking these ideas to the key german concept of stimmung attunement and its roots in pythagorean harmony and vitruvian temperance or proportion he considers the primacy of place over space the linguistic aspect of architecture the voices of architecture and the voice of the architect architecture as a multisensory not pictorial experience with piranesi ledoux and hejduk as examples of metaphorical modeling and how stimmung might be put to work today to realize the contemporary possibilities of attunement

the integration of nature in architecture is a key concern of sustainability however all too often sustainable design is reduced to improving the energetic performance of buildings and the ornamental application of natural green dense green explores new architectural typologies that emerge from the integration of green components such as sky terraces vertical parks and green facades in high density buildings the book describes green strategies in a comparison across different design tasks and climate conditions in depth case studies on the most relevant building types consistently presented with analytical drawings made exclusively for this book are complemented by expert essays that demonstrate the current paradigm shift in the sustainable urban environment from the contents dense green building types by thomas schröpfer architect singapore university of technology and design dense green building technology by atelier ten environmental design consultants and building services engineers new york ny dense green landscape design by herbert dreiseitl landscape architect atelier dreiseitl rambøll liveable cities lab Überlingen singapore portland or dense green botanical design by jean yong plant eco physiologist singapore university of technology and design dense green urbanism by kees christiaanse urban planner eth zurich 25 in depth case studies from europe asia and the usa practice reports by foster partners woha ken yeang mvrDV and others

this unique volume offers insights from renowned experts in energy efficient building from the world over providing a multi

faceted overview of the state of the art in energy efficient architecture it opens by defining what constitutes a sustainable building suggesting bases for sorely needed benchmarks then explains the most important techniques and tools available to engineers and architects exploring green building technologies it covers such pivotal issues as daylighting led lighting integrating renewables such as solar thermal and cooling retrofitting leed and similar certification efforts passive houses net zero and close zero structures water recycling and much more highlighting best practices for commercial buildings and private homes in widely varied climates and within vastly different socio economic contexts this illustrated reference will guide architects and engineers in making sustainable choices in building materials and methods explains the best methods and materials to support energy efficient building features case studies by experts from a dozen countries demonstrating how sustainable architecture can be achieved in varied climates and economies covers both new constructions and retrofitting of existing structures

a clear and thorough guide to the building blocks of sustainable design

identifying and critically discussing the key terms techniques methodologies and habits that comprise our understanding of fieldwork in architectural education research and practice this book collates contributions by established and emerging international scholars it will be of interest to critical practitioners researchers scholars and students of architecture a selection of critical historiographies theoretical strategies and reflective design practices challenge us to think seriously about our knowledge experience and application of fieldwork in architecture

this collaborative volume by architectural historians and research engineers provides fresh insights into the early builders art

the evolution of designs tells the history of the many analogies that have been made since the end of the eighteenth century between the evolution of organisms and the human production of artefacts especially buildings

polemics and reflections on how to bridge the gap between what architecture actually is and what architects want it to be architecture depends on what on people time politics ethics mess the real world architecture jeremy till argues with conviction in this engaging sometimes pugnacious book cannot help itself it is dependent for its very existence on things outside itself despite the claims of autonomy purity and control that architects like to make about their practice architecture is buffeted by uncertainty and contingency circumstances invariably intervene to upset the architect s best laid plans at every stage in the process from design through construction to occupancy architects however tend to deny this fearing contingency and preferring to pursue perfection with architecture depends architect and critic jeremy till offers a proposal for

rescuing architects from themselves a way to bridge the gap between what architecture actually is and what architects want it to be mixing anecdote design social theory and personal experience till s writing is always accessible moving freely between high and low registers much like his suggestions for architecture itself

thermodynamic principles solar radiation solar heating climate analysis

development of the material technological base in the field of architecture and construction is progressing faster than in the previous periods based on the potential of new materials and technologies it is possible to create advanced architecture and engineering building systems integration of advanced materials technologies and construction systems creates a high quality architectural construction with optimum performance in the present as well as in the future nevertheless improper application of high quality materials in the wrong environment may cause a defect

this handbook provides readers with a well illustrated and readable comparative guide to proportion systems in architecture setting out the mathematical principles that underlie the main systems and illustrating these with examples of their use in historical and modern buildings the main body of the text traces the interplay of abstraction and empathy through the history of science philosophy and architecture from the early greeks through to the two early twentieth century architects who made proportion the focus of their work le corbusier and van der laan the book ends with a reflection on the present and future role of proportion in architecture

visually many contemporary buildings either reflect their systems of production or recollect earlier styles and motifs this text explores ways that design can take advantage of production methods so that architecture is neither independent of nor dominated by technology

written and edited by a team of specialists at max fordham llp one of the uk s leading environmental and building services engineering consultancies environmental design is the result of their extensive experience in designing environmentally friendly buildings the principles of their approach which they have taught in numerous schools of architecture and engineering are clearly presented here the book starts with some basic scientific principles and environmental issues and then moves on to site planning energy use materials and building form natural ventilation systems high efficiency mechanical equipment and alternative energy sources are also covered state of the art buildings of exceptional quality are incorporated throughout the text and illustrate the authors belief that environmentally responsible architecture can be visually exciting they conclude with a selection of detailed case studies of award winning projects including new for this third edition beaufort

court king s langley and the national trust headquarters swindon this book is essential reading for architects engineers planners and students of these disciplines

design tech is an indispensable holistic approach to architectural technology that shows you in hundreds of drawings and tables the why as well as the how of building science providing you with a comprehensive overview in this expanded edition measurements and examples are listed in both metric and imperial units to reflect the global reality of architectural practice the authors also address digital fabrication construction documentation ultra high rise structures and zoning codes and there s more in depth coverage of structural design and greater emphasis on environmental forces numerous case studies demonstrate real world design implications for each topic so that you can integrate technical material with design sensibilities short chapters explain each topic from first principles in easy to reference formats focusing on what you need to know both at the drawing board and in future discussions with engineers contractors and consultants this new edition incorporates material from continuing curricular experimentation in the sci tech sequence at iowa state university which has been recognized with awards and funding from the american institute of architects the u s green building council and the national council of architectural registration boards

the architecture of persistence argues that continued human use is the ultimate measure of sustainability in architecture and that expanding the discourse about adaptability to include continuity as well as change offers the architectural manifestation of resilience why do some buildings last for generations as beloved and useful places while others do not how can designers today create buildings that remain useful into the future while architects and theorists have offered a wide range of ideas about building for change this book focuses on persistent architecture the material spatial and cultural processes that give rise to long lived buildings organized in three parts this book examines material longevity in the face of constant physical and cultural change connects the dimensions of human use and contemporary program and discusses how time informs the design process featuring dozens of interviews with people who design and use buildings and a close analysis of over a hundred historic and contemporary projects the principles of persistent architecture introduced here address urgent challenges for contemporary practice while pointing towards a more sustainable built environment in the future the architecture of persistence designing for future use offers practitioners students and scholars a set of principles and illustrative precedents exploring architecture s unique ability to connect an instructive past a useful present and an unknown future

in recent years we have seen a number of dramatic discoveries within the biological and related sciences traditional

arguments such as nature versus nurture are rapidly disappearing because of the realization that just as we are affecting our environments so too do these altered environments restructure our cognitive abilities and outlooks if the biological and technological breakthroughs are promising benefits such as extended life expectancies these same discoveries also have the potential to improve in significant ways the quality of our built environments this poses a compelling challenge to conventional architectural theory this is the first book to consider these new scientific and humanistic models in architectural terms constructed as a series of five essays around the themes of beauty culture emotion the experience of architecture and artistic play this book draws upon a broad range of discussions taking place in philosophy psychology biology neuroscience and anthropology and in doing so questions what implications these discussions hold for architectural design drawing upon a wealth of research mallgrave argues that we should turn our focus away from the objectification of architecture treating design as the creation of objects and redirect it back to those for whom we design the people inhabiting our built environments

architectural research methods architecture general a practical guide to research for architects and designers now updated and expanded from searching for the best glass to prevent glare to determining how clients might react to the color choice for restaurant walls research is a crucial tool that architects must master in order to effectively address the technical aesthetic and behavioral issues that arise in their work this book s unique coverage of research methods is specifically targeted to help professional designers and researchers better conduct and understand research part i explores basic research issues and concepts and includes chapters on relating theory to method and design to research part ii gives a comprehensive treatment of specific strategies for investigating built forms in all the book covers seven types of research including historical qualitative correlational experimental simulation logical argumentation and case studies and mixed methods features new to this edition include strategies for investigation practical examples and resources for additional information a look at current trends and innovations in research coverage of design studio based research that shows how strategies described in the book can be employed in real life a discussion of digital media and online research new and updated examples of research studies a new chapter on the relationship between design and research architectural research methods is an essential reference for architecture students and researchers as well as architects interior designers landscape architects and building product manufacturers

leading neuroscientists and architects explore how the built environment affects our behavior thoughts emotions and well being although we spend more than ninety percent of our lives inside buildings we understand very little about how the built environment affects our behavior thoughts emotions and well being we are biological beings whose senses and neural

systems have developed over millions of years it stands to reason that research in the life sciences particularly neuroscience can offer compelling insights into the ways our buildings shape our interactions with the world this expanded understanding can help architects design buildings that support both mind and body in mind in architecture leading thinkers from architecture and other disciplines including neuroscience cognitive science psychiatry and philosophy explore what architecture and neuroscience can learn from each other they offer historical context examine the implications for current architectural practice and education and imagine a neuroscientifically informed architecture of the future architecture is late in discovering the richness of neuroscientific research as scientists were finding evidence for the bodily basis of mind and meaning architecture was caught up in convoluted cerebral games that denied emotional and bodily reality altogether this volume maps the extraordinary opportunity that engagement with cutting edge neuroscience offers present day architects contributors thomas d albright michael arbib john paul eberhard melissa farling vittorio gallese alessandro gattara mark l johnson harry francis mallgrave iain mcgilchrist juhani pallasmaa alberto pérez gómez sarah robinson

this book is based on dr torraca s 2002 publication lezioni di scienza e tecnologia dei materiali per restauro dei monumenti the english language lectures includes new and updated material an excellent resource for architectural conservators engineers and conservation scientists

how can we develop a scientific basis for architectural urban and technical design when can a design be labelled as scientific output comparable with a scientific report what are the similarities and dis similarities between design and empirical research and between design research typological research design study and study by design is there a need for a particular methodology for design driven study and research with these questions in mind more than forty members of the faculty of architecture of the delft university of technology have described their ways of study and research each chapter shows the objectives the methodology and its implementation in search for a deeper knowledge of design processes and an optimal quality of the design itself the authors among them architects urban planners social scientists lawyers technicians and information scientists have widely differing backgrounds nevertheless they share a great deal the central focus is a better understanding of design processes design tools and the effects of design interventions on issues such as utility aesthetics meaning sustainability and feasibility

swan maclaren were one of the main architectural practices working in singapore from their foundation in 1892 through to independence in 1965 as such the history of singapore architecture during that period is very much the history of swan maclaren the output of the firm was extraordinary ranging from corporate blockbusters like the hongkong shanghai bank and

the union building of the 1920s to factories shophouses department stores hotels schools and university buildings railway stations churches mosques a synagogue bungalows even the odd cattle shed 0the scope of the book covers the period from the mid 1880s when the two eponymous founding partners archibald a swan and j w b maclaren first came to singapore and continues through to the end of the british era in 1965

architecture for the commons dives into an analysis of how the tectonics of a building is fundamentally linked to the economic organizations that allow them to exist by tracing the origins and promises of current technological practices in design the book provides an alternative path one that reconsiders the means of achieving complexity through combinatorial strategies this move requires reconsidering serial production with crowdsourcing and user content in mind the ideas presented will be explored through the design research developed within plethora project a design practice that explores the use of video game interfaces as a mechanism for participation and user design the research work presented throughout the book seeks to align with a larger project that is currently taking place in many different fields the construction of the commons by developing both the ideological and physical infrastructure the project of the commons has become an antidote to current economic practices that perpetuate inequality the mechanisms of the production and governance of the commons are discussed inviting the reader to get involved and participate in the discussion the current political and economic landscape calls for a reformulation of our current economic practices and alternative value systems that challenge the current market monopolies this book will be of great interest not only to architects and designers studying the impact of digital technologies in the field of design but also to researchers studying novel techniques for social participation and cooperating of communities through digital networks the book connects principles of architecture economics and social sciences to provide alternatives to the current production trends

essays at the intersection of philosophy and architecture explore how we understand and inhabit space to be outside allows one a fresh perspective on the inside in these essays philosopher elizabeth grosz explores the ways in which two disciplines that are fundamentally outside each another architecture and philosophy can meet in a third space to interact free of their internal constraints outside also refers to those whose voices are not usually heard in architectural discourse but who inhabit its space the destitute the homeless the sick and the dying as well as women and minorities grosz asks how we can understand space differently in order to structure and inhabit our living arrangements accordingly two themes run throughout the book temporal flow and sexual specificity grosz argues that time change and emergence traditionally viewed as outside the concerns of space must become more integral to the processes of design and construction she also argues against architecture s historical indifference to sexual specificity asking what the existence of at least two sexes has to do

with how we understand and experience space drawing on the work of such philosophers as henri bergson roger caillouis gilles deleuze jacques derrida luce irigaray and jacques lacan grosz raises abstract but nonformalistic questions about space inhabitation and building all of the essays propose philosophical experiments to render space and building more mobile and dynamic

latour for architects is the first introduction to the key concepts and ideas of bruno latour that are relevant to architects

As recognized, adventure as with ease as experience virtually lesson, amusement, as competently as arrangement can be gotten by just checking out a book **Introduction To Architectural Science** next it is not directly done, you could admit even more re this life, roughly speaking the world. We have the funds for you this proper as competently as simple habit to get those all. We meet the expense of Introduction To Architectural Science and numerous books collections from fictions to scientific research in any way. accompanied by them is this Introduction To Architectural Science that can be your partner.

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An aesthetically pleasing and user-friendly interface serves as the canvas upon which Introduction To Architectural Science depicts its literary masterpiece. The website's design is a showcase of the thoughtful curation of content, providing an experience that is both visually appealing and functionally intuitive. The bursts of color and images blend with the intricacy of literary choices, forming a seamless journey for every visitor.

Mastering the Serial Dilution Calculator: A Guide to Precise mg/mL Solutions

Precisely preparing solutions is paramount in various scientific disciplines, from biochemistry and microbiology to pharmacology and environmental science. A common technique for achieving the desired concentration is serial dilution, a stepwise process where a stock solution is diluted repeatedly to create a series of solutions with progressively lower concentrations. This article serves as a comprehensive guide to understanding and utilizing a serial dilution calculator specifically designed for mg/mL (milligrams per milliliter) solutions. We will explore the underlying principles, demonstrate practical applications with examples, and address frequently asked questions.

Understanding Serial Dilutions and the mg/mL Unit

Serial dilution involves transferring a specific volume of a concentrated stock solution into a larger volume of a diluent (usually a solvent like water). This creates a solution of lower concentration. This process is then repeated multiple times, each time using the previously diluted solution as the new stock. This method is highly efficient for preparing a wide range of concentrations from a single stock solution. The mg/mL unit represents the concentration of a solute in milligrams per milliliter of solution. It signifies the mass of solute (in mg) dissolved in one milliliter (mL) of the solution.

The Formula Behind the Calculation

The core calculation behind any serial dilution involves the dilution factor. The dilution factor is the ratio of the final volume to the initial volume. It can also be expressed as the inverse of the concentration factor. The formula is: $C_1V_1 = C_2V_2$ Where: C_1 is the initial concentration (mg/mL) V_1 is the initial volume (mL) C_2 is the final concentration (mg/mL) V_2 is the final volume (mL) This formula helps us determine the appropriate volumes for each dilution step in a serial dilution series. A serial

dilution calculator automates this process, allowing for easy calculation of multiple dilutions.

Using a Serial Dilution Calculator (mg/mL)

Many online calculators and software packages are available to simplify serial dilution calculations. These tools usually require the user to input the following: Stock concentration (C1): The concentration of your initial solution in mg/mL. Desired final concentration (C2): The target concentration you want to achieve in mg/mL. Desired final volume (V2): The total volume of the final diluted solution you need. Number of dilutions: The number of steps in your serial dilution process. The calculator then determines the volumes needed for each dilution step, often providing a step-by-step protocol. Remember to always ensure accurate measurements using appropriate laboratory equipment like micropipettes and volumetric flasks.

Example: Preparing a Series of Glucose Solutions

Let's say we have a 1000 mg/mL stock solution of glucose and we need to prepare 5 mL of 10 mg/mL, 1 mg/mL, and 0.1 mg/mL glucose solutions using serial dilution. Using a serial dilution calculator, we would input the stock concentration, desired concentrations, desired final volumes, and the number of dilutions (three in this case). The calculator would then provide the precise volumes required for each dilution step. For instance, it might suggest transferring a specific volume from the 1000 mg/mL stock into a diluent to achieve the 10 mg/mL solution, and then repeating the process using the 10 mg/mL solution to prepare the 1 mg/mL and 0.1 mg/mL solutions.

Practical Considerations and Error Minimization

Accuracy is crucial in serial dilutions. Using appropriately calibrated pipettes and volumetric glassware is essential to minimize error. Thorough mixing after each dilution step is vital to ensure homogeneity. It's also important to consider the potential for carryover contamination between dilutions. Using sterile techniques and fresh tips for each step can reduce this risk.

Conclusion

Serial dilution is a powerful and widely used technique for preparing solutions with precisely controlled concentrations. Utilizing a serial dilution calculator, especially for mg/mL solutions, significantly simplifies the process, reducing calculation errors and improving efficiency. Accurate preparation of solutions is vital for reliable experimental results across various scientific disciplines, highlighting the importance of mastering this technique.

FAQs

1. What if I don't have a serial dilution calculator? You can manually calculate each dilution step using the $C1V1 = C2V2$ formula, but a calculator significantly reduces the risk of errors, especially for multi-step dilutions. 2. Can I use serial dilution for solutions with units other than mg/mL? Yes, the principles remain the same, but you'll need to adjust the units accordingly in your calculations and calculator input. 3. What is the significance of accurate measurements in serial dilution? Inaccurate measurements lead to inaccurate concentrations, potentially affecting experimental results and data analysis. 4. How do I ensure thorough mixing after each dilution step? Use gentle but thorough inversion or vortexing to achieve uniform concentration throughout the solution. 5. What are the common sources of error in serial dilution? Common sources include inaccurate volume measurements, insufficient mixing, and carryover contamination between dilutions.

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