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TRAVIS NEAL

This book is a collection of illustrated papers by British architects Jonathan Sergison and Stephen Bates written between 2002 and 2007. Writing, like drawing and talking together, supports their collaborative and creative work, providing as it does a tangible reference point for communication and in the search for shared objectives. Although each of the papers included in this volume was written by one of the architects, they acknowledge shared authorship of their content and objective. In the preparation of each paper, the observer acts as a friendly critic to the write, integral to the process and supportive of the exploration of personal and shared experience. Some of theses papers wrere written as a result of self-imposed discipline, others were prepared as lectures, to support their teaching practice, to highlight a particular theme or encourage a way of looking at something. Others were written as contributions towards symposia, conferences and publications, or in response to invitations to speak publicly about their work. In some cases, a lecture based on notes and images has been subsequently developed for publication. This results in a rich mix in terms of contet, lenght, structure and character. The twenty papers are organised thematically and chronologically within each section, addressing reflections on their own position within architectural discourse, on the process of making buildings, on some of the ideas that recur in their work and on aspects of place. Applied Acrobat for Engineers is the first and only book to be written specifically to give engineers the skills that they need to use pdfs and Adobe Acrobat in engineering applications. Teaches the use of PDF in communication and archiving of complex documents with a specific slant towards various engineering disciplines and the related areas of architecture and construction management Better document control reduces project review and approval times Uses the progressive treatment of a sample project, throughout the book, to explain and illustrate the application of Acrobat techniques Encourages easier interaction with clients and regulatory agencies by employing a completely searchable document format which is available to all Since the 1980s, the diagram has become a preferred method for researching, communicating, theorising and making architectural designs, ideas and projects. Thus the rise of the diagram, as opposed to the model or the drawing, is the one of the most significant new developments in the process of design in the late 20th and early 21st centuries. Diagrams of Architecture is the first anthology to represent - through texts and diagrams - the histories, theories and futures of architecture through the diagram. Spanning the Pre-historic to the Parametric, Diagrams of Architecture illustrates over 250 diagrams and brings together 26 previously published and newly commissioned essays from leading international academics, architects, theorists and professional experts. These combine to define the past and future of the diagram's discourse. Prefaced with a critical introduction by Mark Garcia, each text investigates a central concept or dimension of the diagram ranging from socio-cultural studies, science, philosophy, technology, CAD/CAM, computing and cyberspace and virtual/digital design to methodology, environment/sustainability and phenomenological, poetic and art architecture; as well as interior, urban, engineering, interactive and landscape design. The first critical, multidisciplinary book on the history, theory and futures of the architectural diagram. Includes seminal articles on the diagram from the history and theory of architecture such as those by Peter Eisenman, Sanford Kwinter, MVRDV, Neil Spiller, Lars Spuybroek, UN Studio and Anthony Vidler. Features 14 newly commissioned articles by leading architects and theorists, including Charles Jencks, Hanif Kara, Patrik Schumacher, Neil Spiller, Leon van Schaik and Alejandro Zaera-Polo and two new interviews with Will Alsop and Bernard Tschumi. Includes a full-colour critical collection of over 250 of the most significant and original diagrams, many of which are previously unpublished, in the history of architecture from around the world.

La 4e de couv. indique "Architects use diagrams every day - as sketches they are convenient tools for quickly demonstrating a point, as worked through representations they present complex ideas simply and attractively for clients, and as graphics they cross language barriers. Their theoretical background is, however, not quite so well known. Alongside offering inspiring examples of these multifaceted visualisations, this volume explores some of the associated history and theory. How is the diagram a place where architecture and philosophy meet? In what ways can we critically examine their analogue and digital forms? Is the history of the diagram over? Citing the ideas of, among others, Peter Eisenman and Gilles Deleuze the philosopher Lidia Gasperoni investigates diagrammatic practices in architectural design in her absorbing introductory essay. Part of the Construction and Design Manuals series, Architectural Diagrams 2 is a practical guide for those working in creative disciplines: over 312 pages it covers the fields of architecture, interior design, and installation, with both images and quotes from carefully selected contemporary practitioners."

The title Architectural and Program Diagrams in the series Construction and Design Manual brings together more than 600 pages from a predominantly international avant-garde and offers an overview of the state of the art in architectural representation across a spectrum extending from simple arrow diagrams to sober graphs and highly elaborate, often somewhat surreal collages and computer animations which trigger a wide range of intellectual and emotional responses. Diagrams tell stories. Those able to read them can follow the process by which ideas and thoughts take visual shape, find aesthetic form and, if all goes well, become part of the built environment.

The drawing architect – for centuries, this term was just as Ʉʼtautological as the 'baking baker' or the 'gardening gardener'. ɄʼNevertheless, in this compendium one has to begin with reference to the fact that the acquisition of drawing skills is by no means a minor field of study for architects. Design methodology, also referred to as methodology of space and the representation of the human body, plays an important role – once more – in the present-Ʉʼday field of architectural activity. This book explores Ʉʼoptions for illustration, as well as contemporary practice with architectural presentation. It deals with the following topics: The history and theory of architectural drawing, covering a wide spectrum of issues in terms of art and architectural ɄʼɄʼhistory, examples are provided by two design collections; ten architects present their architectural concepts based on a selection of drawing and

presentation techniques; ten exercises for freehand drawing; demonstrative examples and practical exercises which ɄʼɄʼillustrate technical drawing and the fundamental principles of perspective.

This guidance on Building Information Modelling for heritage (Historic BIM) offers guidance for owners, end-users and professionals in the fields of heritage and construction. By raising awareness of the potential advantages of a BIM approach, this guidance will help users successfully implement BIM in heritage projects. Historic BIM is, by definition, a multi-disciplinary process that requires the input and collaboration of professionals with very different skillsets. It is also a fast-developing field in terms of research, official guidance, standards and professional practice. This publication addresses the issues surrounding the production and use of BIM for history buildings, and provides information about guidance and standards available elsewhere for managing a building's entire life cycle effectively.

Written for the practicing architect, Structural Design addresses the process on both a conceptual and a mathematical level. Most importantly, it helps architects work with structural consultants and understand all the necessary considerations when designing structural systems. Using a minimum of simple math, this book shows you how to make correct design calculations for structures made from steel, wood, concrete, and masonry. What?s more, this edition has been completely updated to reflect the latest design methods and codes, including LRFD for steel design. The book was also redesigned for easy navigation. Essential principles, as well as structural solutions, are visually reinforced with hundreds of drawings, photographs, and other illustrations--making this book truly architect-friendly.

Even in a country where outstanding achievements have become almost a commonplace, the Japanese architect, Kisho Kurokawa, appears as both a remarkable and a remarkably successful man. With buildings in the United States and Eastern and Western Europe as well as in Japan, he has established an international reputation as a leading figure amongst the younger generation of architects. At the age of forty he already had thirty-five major buildings and seventeen books to his credit; four new towns are being built to his designs; he heads a company of over a hundred employees, he runs a think-tank and an urban design bureau and for variety he has his own television programme with a regular audience of some 30 million. Behind these statistics lies a prodigious vitality expressed in original and stimulating buildings. -- from book jacket.

Space planning involves much more than sketching a preliminary floor plan. A designer must take a client's programming needs into account and must also consider how other factors such as building codes and environmental factors affect a spatial composition. Space Planning Basics, now in its Third Edition, offers a highly visual, step-by-step approach to developing preliminary floor plans for commercial spaces. The book provides tools for visualizing space and walks the designer through other considerations such as building code requirements and environmental control needs. Specific programming techniques covered include matrices, bubble diagrams, CAD templates, block plans, and more. New to this edition are coverage of the basics of stair design, an essential aspect for planning spaces.

SGN.The Ebook PPSC-Punjab Building Inspector (Group-B) Exam Covers Architecture Subject Objective Questions From Various Competitive Exams With Answers.

Understanding Passivhaus is a simple guide to the Passivhaus standard. The book explains the principles behind Passivhaus thinking, and explores numerous construction methods for achieving the Passivhaus standard. What is Passivhaus? Why design a Passivhaus? PHPP Certification Principles of Passivhaus Design Technical requirements Building fabric Form factor Insulation Thermal bridge Airtightness and air leakage Building services and ventilation Windows Solar design Shading Summer ventilation Roof lights Types of Construction Masonry construction Timber frame Structural Insulated Panels (SIPS) Insulated Concrete Formwork (ICF) Mixed methods of construction Construction Details Solid concrete with rendered external insulation Insulated concrete formwork Solid masonry with larsen trusses Masonry cavity wall Timber frame with larsen trusses Timber I joist frame SIPS construction Timber frame with external render Case Studies A selection of wonderful examples of Passivhaus designs and construction methods, with more case studies added for this second edition.

The trendsetting architect Rem Koolhaas has carried it out to perfection, whereas the next generation of international stars refined it even more, giving us the unconventional presentation of designs and ideas in the form of diagrams. This method of presentation is easy to understand when dealing with the client and can be communicated internationally, beyond language and cultural barriers – a product of our globalised world. However, diagrams are now much more than explanations and form their own discipline in creative professions connected to design and construction. What looks simple is in fact a complex matter. This title in the series Construction and Design Manual is in its second edition and assembles 384 pages of diagrams by avant-garde architects and designers who specialise in public space, landscape architecture and urban planning.

Drawing Futures brings together international designers and artists for speculations in contemporary drawing for art and architecture.Despite numerous developments in technological manufacture and computational design that provide new grounds for designers, the act of drawing still plays a central role as a vehicle for speculation. There is a rich and long history of drawing tied to innovations in technology as well as to revolutions in our philosophical understanding of the world. In reflection of a society now underpinned by computational networks and interfaces allowing hitherto unprecedented views of the world, the changing status of the drawing and its representation as a political act demands a platform for reflection and innovation. Drawing Futures will present a compendium of projects, writings and interviews that critically reassess the act of drawing and where its future may lie.Drawing Futures focuses on the discussion of how the field of drawing may expand synchronously alongside technological and computational

developments. The book coincides with an international conference of the same name, taking place at The Bartlett School of Architecture, UCL, in November 2016. Bringing together practitioners from many creative fields, the book discusses how drawing is changing in relation to new technologies for the production and dissemination of ideas.

Concise lessons in design, drawing, the creative process, and presentation, from the basics of "How to Draw a Line" to the complexities of color theory. This is a book that students of architecture will want to keep in the studio and in their backpacks. It is also a book they may want to keep out of view of their professors, for it expresses in clear and simple language things that tend to be murky and abstruse in the classroom. These 101 concise lessons in design, drawing, the creative process, and presentation—from the basics of "How to Draw a Line" to the complexities of color theory—provide a much-needed primer in architectural literacy, making concrete what too often is left nebulous or open-ended in the architecture curriculum. Each lesson utilizes a two-page format, with a brief explanation and an illustration that can range from diagrammatic to whimsical. The lesson on "How to Draw a Line" is illustrated by examples of good and bad lines; a lesson on the dangers of awkward floor level changes shows the television actor Dick Van Dyke in the midst of a pratfall; a discussion of the proportional differences between traditional and modern buildings features a drawing of a building split neatly in half between the two. Written by an architect and instructor who remembers well the fog of his own student days, 101 Things I Learned in Architecture School provides valuable guideposts for navigating the design studio and other classes in the architecture curriculum. Architecture graduates—from young designers to experienced practitioners—will turn to the book as well, for inspiration and a guide back to basics when solving a complex design problem.

This edition of the industry standard on architectural detailing includes new sections covering analysis and modification of existing details and design of new details, both basic and advanced. Revised to address sustainability and to reflect the International Building Code®, Architectural Detailing continues to deliver reliable, insightful information on how to design details that will be water- and airtight, control the flows of heat and water vapor, adjust to all kinds of movement, age gracefully, be easy to construct, and still look good. Conveniently organized by the three major concerns of the detailer—function, constructibility, and aesthetics—this edition features: Richly illustrated examples of detail design, case studies, and practical exercises. New and revised patterns showing form, constructibility, and aesthetics. Everything you need, whether a student or professional, to design details that work. Order your copy today.

This book provides an introductory overview of the rapid growth in interdisciplinary research into Thinking with Diagrams. Diagrammatic representations are becoming more common in everyday human experience, yet they offer unique challenges to cognitive science research. Neither linguistic nor perceptual theories are sufficient to completely explain their advantages and applications. These research challenges may be part of the reason why so many diagrams are badly designed or badly used. This is ironic when the user interfaces of computer software and the worldwide web are becoming so completely dominated by graphical and diagrammatic representations. This book includes chapters commissioned from leading researchers in the major disciplines involved in diagrams research. They review the philosophical status of diagrams, the cognitive processes involved in their application, and a range of specialist fields in which diagrams are central, including education, architectural design and visual programming languages. The result is immediately relevant to researchers in cognitive science and artificial intelligence, as well as in applied technology areas such as human-computer interaction and information design.

The industry-standard guide to designing well-performing buildings Architectural Detailing systematically describes the principles by which good architectural details are designed. Principles are explained in brief, and backed by extensive illustrations that show you how to design details that will not leak water or air, will control the flow of heat and water vapor, will adjust to all kinds of movement, and will be easy to construct. This new third edition has been updated to conform to International Building Code 2012, and incorporates current knowledge about new material and construction technology. Sustainable design issues are integrated where relevant, and the discussion includes reviews of recent built works that extract underlying principles that can be the basis for new patterns or the alteration and addition to existing patterns. Regulatory topics are primarily focused on the US, but touch on other jurisdictions and geographic settings to give you a well-rounded perspective of the art and science of architectural detailing. In guiding a design from idea to reality, architects design a set of details that show how a structure will be put together. Good details are correct, complete, and provide accurate information to a wide variety of users. By demonstrating the use of detail patterns, this book teaches you how to design a building that will perform as well as you intend. Integrate appropriate detailing into your designs Learn the latest in materials, assemblies, and construction methods Incorporate sustainable design principles and current building codes Design buildings that perform well, age gracefully, and look great Architects understand that aesthetics are only a small fraction of good design, and that stability and functionality require a deep understanding of how things come together. Architectural Detailing helps you bring it all together with a well fleshed-out design that communicates accurately at all levels of the construction process.

The classic work on the evaluation of city form. What does the city's form actually mean to the people who live there? What can the city planner do to make the city's image more vivid and memorable to the city dweller? To answer these questions, Mr. Lynch, supported by studies of Los Angeles, Boston, and Jersey City, formulates a new criterion—imageability—and shows its potential value as a guide for the building and rebuilding of cities. The wide scope of this study leads to an original and vital method for the evaluation of city form. The architect, the planner, and certainly the city dweller will all want to read this book.

Architecture is often seen as the art of a thinking mind that arranges, organizes and establishes relationships between the parts and the whole. It is also seen as the art of designing spaces, which we experience through movement and use. Conceptual ordering, spatial and social narrative are fundamental to the ways in which buildings are shaped, used and perceived. Examining and exploring the ways in which these three dimensions interact in the design and life of buildings, this intriguing book will be of use to anyone with an interest in the theory of architecture and architecture's relationship to the cultural human environment.

This book is a one-stop resource on all the critical aspects of planning and designing hospitals, one of the most complex healthcare projects to undertake. A well-planned and designed hospital should control infection rate, provide safety to patients, caregivers and visitors, help improve patients' re-

covery and have scope for future expansion and change. Reinforcing these basic principles, guidance on such effective planning and designing is the key focus. Readers are offered insights into eliminating shortcomings at every stage of setting up a hospital which may not be feasible to rectify later on through alterations. Chapters from 1 to 12 of the book provide exhaustive notes on initial planning, such as detailed project reports, feasibility studies, and area calculation. Chapters 13 to 27 include designing and layout of all the essential departments/units such as OPD, emergency, intermediate care, diagnostics, operating rooms, and intensive care units. Chapters 28 to 37 cover designing support services like sterilization department, pharmacy, medical gas pipeline, kitchen, laundry, medical record, and mortuary. Chapters 38 to 48 take the readers through planning other services like air-conditioning and ventilation, fire safety, extra low voltage, mechanical, electrical, and plumbing services. Chapter 49 is for the planning of medical equipment. A particular chapter on "Green" hospital designing is included. This book is a single essential tabletop reference for hospital consultants, medical and hospital administrators, hospital designers, architecture students, and hospital promoters.

DIVLearning a new discipline is similar to learning a new language; in order to master the foundation of architecture, you must first master the basic building blocks of its language – the definitions, function, and usage. Language of Architecture provides students and professional architects with the basic elements of architectural design, divided into twenty-six easy-to-comprehend chapters. This visual reference includes an introductory, historical view of the elements, as well as an overview of how these elements can and have been used across multiple design disciplines./divDIV /divDIVWhether you're new to the field or have been an architect for years, you'll want to flip through the pages of this book throughout your career and use it as the go-to reference for inspiration, ideas, and reminders of how a strong knowledge of the basics allows for meaningful, memorable, and beautiful fashions that extend beyond trends./divDIV /divDIVThis comprehensive learning tool is the one book you'll want as a staple in your library./divDIV /div

Precedents in Architecture provides a vocabulary for architectural analysis that will help you understand the works of others, and aid you in creating your own designs. Here, you will examine the work of internationally known architects with the help of a unique diagrammatic technique, which you can also use to analyze existing buildings. In addition to the sixteen original contributors, the Second Edition features seven new, distinguished architects. All 23 architects were selected because of the strength, quality, and interest of their designs.

Working Drawings Handbook focuses on the principles, styles, methodologies, and approaches involved in drawings. The book first takes a look at the structure of information, types of drawing, and draftsmanship. Discussions focus on dimensioning, drawing conventions, techniques, materials, drawing reproduction, location drawing, component and sub-component drawings, assembly drawing, schedule, pictorial views, and structure of working drawings. The manuscript then ponders on working drawing management and other methods. Topics include planning the set, drawing register, drawing office programming, and introducing new methods. Building elements and external features, conventions for doors and windows, symbols indicating materials, electrical, telecommunications, and fire symbols, and non-active lines and symbols are also discussed. The book is a fine reference for draftsmen and researchers interested in studying the elements of drawing.

PRECEDENTS IN ARCHITECTURE A TIMELY UPDATE OF THE ARCHITECTURAL CLASSIC ON DESIGN ANALYSIS Precedents in Architecture, Fourth Edition provides a vocabulary for architectural analysis that illuminates the works of leading architects and aids architects and designers in creating their own designs. Thirty-eight leading architects are represented in this updated edition through an analysis of more than 100 buildings that are assessed using a diagrammatic technique applicable to any building. This impressive collection includes fourteen new buildings and seven new, innovative architects distinguished by the strength, quality, and interest of their designs. It delivers valuable guidance in analyzing architectural history as an evolutionary process by exploring the commonality of design ideas reflected in a broad range of structures by internationally renowned architects. Both novices and seasoned professionals will find Precedents in Architecture, Fourth Edition to be a very useful tool for enriching their design vocabulary and for the ongoing assessment of buildings found in today's evolving landscape.

This book is suitable for use in a university-level first course in computing (CS1), as well as the increasingly popular course known as CS0. It is difficult for many students to master basic concepts in computer science and programming. A large portion of the confusion can be blamed on the complexity of the tools and materials that are traditionally used to teach CS1 and CS2. This textbook was written with a single overarching goal: to present the core concepts of computer science as simply as possible without being simplistic.

Experimental Diagrams: Presenting New Practices The diagram form of representation has become a standard in architecture for some years now. This third book on the subject follows two successful titles. It builds a bridge to diagrams as experimental practices. The contributions critically delineate diagrammatic behaviours in the history of architecture, present the design practices of offices such as AZPML and MVRDV, take the medium to its extreme consequences, and outline future trajectories.

Diagrams play an increasingly important role in architecture and urban planning helping to communicate both complex ideas and systems relationships in a way that is simple to understand across both linguistic and cultural barriers. With bold visions and unexpected approaches diagrams contribute significantly to complex construction development tasks and ultimately their successful implementation.Additionally they are also design objects that reflect the signature of their respective creator as a fresh and inspiring art form.This book, Volume 2 of Architectural and Program Diagrams from the series Construction and Design Manual showcases over 416 pages an almost endless variety of ideas andsolutions around the topic of design and construction. It also includes an introductory essay on the importance of using diagrams in presenting architecture.

The task of structuring information on built environment has presented challenges to the research community, software developers and the industry for the last 20 years. Recent work has taken advantage of Web and industry standards such as XML, OWL, IFC and STEP. Another important technology for the fragmented AEC industry is digital communication. Wired or wireless, it brings together architects, engineers and construction site workers, enabling them to exchange information, communicate and work together. Virtual enterprise organization structures, involving mobile teams over distance, are highly compatible with the needs of the construction industry.

Fabricate 2020 is the fourth title in the FABRICATE series on the theme of digital fabrication and published in conjunction with a triennial conference (London, April 2020). The book features cutting-edge built projects and work-in-progress from both academia and practice. It brings together pioneers

in design and making from across the fields of architecture, construction, engineering, manufacturing, materials technology and computation. Fabricate 2020 includes 32 illustrated articles punctuated by four conversations between world-leading experts from design to engineering, discussing themes such as drawing-to-production, behavioural composites, robotic assembly, and digital craft.

Standards for the design of interior spaces should be based on the measurement of human beings and their perception of space, with special consideration for disabled, elderly, and children

Building upon the success of best-sellers The Clean Coder and Clean Code, legendary software craftsman Robert C. "Uncle Bob" Martin shows how to bring greater professionalism and discipline to application architecture and design. As with his other books, Martin's Clean Architecture doesn't merely present multiple choices and options, and say "use your best judgment": it tells you what choices to make, and why those choices are critical to your success. Martin offers direct, is essential reading for every software architect, systems analyst, system designer, and software manager-- and for any programmer who aspires to these roles or is impacted by their work.

Guidance for successful installation of a wide range of IBM software products KEY FEATURES ● Complete installation guide of IBM software systems, Redhat Enterprise, IBM Cloud, and Docker. ● Expert-led demonstration on complete configuration and implementation of IBM software solutions. ● Includes best practices and efficient techniques adopted by banks, financial services, and insurance companies. DESCRIPTION This book provides instructions for installation, configuration and troubleshooting sections to improve the IT support productivity and fast resolution of issues that arise. It covers readers' references that are available online and also step-by-step procedures required for a successful installation of a broad range of IBM Data Analytics products. This book provides a holistic in-depth knowledge for students, software architects, installation specialists, and developers of Data Analysis software and a handbook for data analysts who want a single source of information on IBM Data Analysis Software products. This book provides a single resource that covers the latest available IBM Data Analysis software on the most recent RedHat Linux and IBM Cloud platforms. This book includes comprehensive technical guidance, enabling IT professionals to gain an in-depth knowledge of the installation of a broad range of IBM Software products across different operating systems. WHAT YOU WILL LEARN ● Step-by-step installation and configuration of IBM Watson Analytics. ● Managing RedHat Enterprise Systems and IBM Cloud Platforms. ● Installing, configuring, and managing IBM StoredIQ. ● Best practices to administer and maintain IBM software packages. ● Upgrading VMware stations and installing Docker. WHO THIS BOOK IS FOR This book is a go-to guide for IT professionals who are primarily Solution Architects, Implementation Experts, or Technology Consultants of IBM Software suites. This will also be a useful guide for IT managers who are looking to adopt and enable their enterprise with IBM products. TABLE OF CONTENTS 1. Getting Started with IBM Resources for Analytics 2. IBM Component Software Compatibility Matrix 3. IBM Download Procedures 4. On-Premise Server Configurations and Prerequisites 5. IBM Fix Packs 6. IBM Cloud PAK Systems 7. RedHat OpenShift 4.x Installations 8. IBM Cloud Private System 9. Base VMWare System Platform 10. IBM Cloud Private Cluster on CentOS 8.0 11. UIMA Pipeline and Java Code Extensions 12. IBM Watson Explorer Foundational Components V12 13. IBM Watson Explorer oneWEX 12.0.3 14. IBM StoredIQ for Legal APPENDIX References and End of Life Support

As Python continues to grow in popularity, projects are becoming larger and more complex. Many Python developers are now taking an interest in high-level software design patterns such as hexagonal/clean architecture, event-driven architecture, and the strategic patterns prescribed by domain-driven design (DDD). But translating those patterns into Python isn't always straightforward. With this hands-on guide, Harry Percival and Bob Gregory from MADE.com introduce proven architectural design patterns to help Python developers manage application complexity—and get the most value

out of their test suites. Each pattern is illustrated with concrete examples in beautiful, idiomatic Python, avoiding some of the verbosity of Java and C# syntax. Patterns include: Dependency inversion and its links to ports and adapters (hexagonal/clean architecture) Domain-driven design's distinction between entities, value objects, and aggregates Repository and Unit of Work patterns for persistent storage Events, commands, and the message bus Command-query responsibility segregation (CQRS) Event-driven architecture and reactive microservices

Since The Social Logic of Space was published in 1984 Bill Hillier and his colleagues at University College London have been conducting research on how space features in the form and functioning of buildings and cities. A key outcome is the concept of 'spatial configuration' - meaning relations which take account of other relations in a complex. New techniques have been developed and applied to a wide range of architectural and urban problems. The aim of this book is to assemble some of this work and show how it leads the way to a new type of theory of architecture: an 'analytic' theory in which understanding and design advance together. The success of configurational ideas in bringing to light the spatial logic of buildings and cities suggests that it might be possible to extend these ideas to other areas of the human sciences where problems of configuration and pattern are critical.

You can use this book to design a house for yourself with your family; you can use it to work with your neighbors to improve your town and neighborhood; you can use it to design an office, or a workshop, or a public building. And you can use it to guide you in the actual process of construction. After a ten-year silence, Christopher Alexander and his colleagues at the Center for Environmental Structure are now publishing a major statement in the form of three books which will, in their words, "lay the basis for an entirely new approach to architecture, building and planning, which will we hope replace existing ideas and practices entirely." The three books are The Timeless Way of Building, The Oregon Experiment, and this book, A Pattern Language. At the core of these books is the idea that people should design for themselves their own houses, streets, and communities. This idea may be radical (it implies a radical transformation of the architectural profession) but it comes simply from the observation that most of the wonderful places of the world were not made by architects but by the people. At the core of the books, too, is the point that in designing their environments people always rely on certain "languages," which, like the languages we speak, allow them to articulate and communicate an infinite variety of designs within a forma system which gives them coherence. This book provides a language of this kind. It will enable a person to make a design for almost any kind of building, or any part of the built environment. "Patterns," the units of this language, are answers to design problems (How high should a window sill be? How many stories should a building have? How much space in a neighborhood should be devoted to grass and trees?). More than 250 of the patterns in this pattern language are given: each consists of a problem statement, a discussion of the problem with an illustration, and a solution. As the authors say in their introduction, many of the patterns are archetypal, so deeply rooted in the nature of things that it seemly likely that they will be a part of human nature, and human action, as much in five hundred years as they are today.

Grainger Town is as much an idea as it is a place. It is an important phenomenon, both historically and in today's debate about conservation in our cities and towns. Richard Grainger, a native of Newcastle and a builder and speculator unparalleled in the region, in the middle decades of the 19th century co-ordinated a radical re-planning that turned the town of his birth from an already handsome regional capital to one which excited the admiration of visitors from far and wide. Grainger's particular achievement was to create a new commercial and residential heart within a historic town, a heart with consistent architectural quality starkly different from the piecemeal and eclectic character of most northern industrial cities. This book describes the evolution of the area and explains how recent planning initiatives have celebrated and exploited a unique urban landscape and injected new life into it.