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dipaparkan pada Bab 7 negara di dunia termasuk Indonesia. Pada Bab 2 dan 3 disajikan informasi lebih detail mengenai prinsip-prinsip bangunan hijau berdasarkan sistem GREENSHIP serta parameter ukur bangunan hijau menurut jenis bangunan. Selanjutnya, di Bab 4 dibahas mengenai dasar-dasar teori, standar, serta metode pengukuran dan simulasi yang digunakan untuk mengukur secara kuantitatif parameter-parameter fisika bangunan. Informasi dasar di Bab 4 kemudian didukung dengan pengetahuan yang komprehensif mengenai penerapan teknologi cerdas dan kontrol pada bangunan (smart and control system) yang dibahas pada Bab 5. Implementasi konsep bangunan hijau di beberapa kampus di Indonesia yang dibahas pada Bab 6 membuka studi dan pandangan yang lebih lebar untuk melihat seberapa penting dan besar pengaruhnya ketika konsep bangunan hijau diterapkan di institusi perguruan tinggi. Kajian lebih lanjut dan dalam mengenai berbagai studi kasus terkait analisis bangunan hijau dan cerdas di Universitas Gadjah Mada yang telah dilakukan oleh grup riset INSGREEEB (Integrated Smart and Green Building) sejak tahun 2012 hingga saat ini. Studi kasus meliputi Gedung Pusat UGM, Perpustakaan Pusat UGM, Asrama Kinanti 1, 2, dan 3, beberapa gedung di Fakultas Teknik, dan beberapa calon gedung baru seperti Smart and Green Learning Center dan Sport Center. Akhirnya, semoga buku ini dapat menjadi sumber informasi yang komprehensif bagi pembaca dalam memahami konsep bangunan hijau dan penerapannya di kawasan perguruan tinggi. Selain itu, semoga juga mampu menjadi rujukan metode dan studi kasus bagi pembaca untuk mendapatkan contoh-contoh yang sistematik dalam mengimplementasikan konsep bangunan hijau. [UGM Press, UGM, Gadjah Mada University Press]
Implementasi Konsep Bangunan Hijau dan Pintar di Kampus Biru - Sentagi Sesotya Utami - 2018-05-29
Buku ini ditulis sebagai bentuk informasi dan rekam jejak yang berlanjut mengenai pengembangan konsep bangunan hijau di Universitas Gadjah Mada. Pada Bab 1 dibahas mengenai isu global, perkembangan kebijakan dalam negeri, konsep dasar, dan sistem pemeringkatan bangunan hijau yang diterapkan di beberapa negara di dunia termasuk Indonesia. Pada Bab 2 dan 3 disajikan informasi lebih detail mengenai prinsip-prinsip bangunan hijau yang berdasarkan sistem GREENSHIP serta parameter ukur bangunan hijau menurut jenis bangunan. Selanjutnya, di Bab 4 dibahas mengenai dasar-dasar teori, standar, serta metode pengukuran dan simulasi yang digunakan untuk mengukur secara kuantitatif parameter-fisika bangunan. Informasi dasar di Bab 4 kemudian didukung dengan pengetahuan yang komprehensif mengenai dan kontrol pada bangunan (smart and control system) yang dibahas pada Bab 5. Implementasi konsep bangunan hijau di beberapa kampus di Indonesia yang dibahas pada Bab 6 membuka studi dan pandangan yang lebih lebar untuk melihat seberapa penting dan besar pengaruhnya ketika konsep bangunan hijau diterapkan di institusi perguruan tinggi. Kajian lebih lanjut dan dalam dipaparkan pada Bab 7 mengenai berbagai studi kasus terkait analisis bangunan hijau dan cerdas di Universitas Gadjah Mada yang telah dilakukan oleh grup riset INSGREEB (Integrated Smart and Green Building) sejak tahun 2012 hingga saat ini. Studi kasus meliputi Gedung Pusat UGM, Perpustakaan Pusat UGM, Asrama Kinanti 1, 2, dan 3, beberapa gedung di Fakultas Teknik, dan beberapa calon gedung baru seperti Smart and Green Learning Center dan Sport Center. Akhirnya, semoga buku ini dapat menjadi sumber informasi yang komprehensif bagi...
Daylighting - Derek Phillips - 2012-05-23
Daylighting offers a general theory and introduction to the use of natural light in architecture. The fourth of Derek Phillip's lighting books draws on his experience to illustrate how best to bring natural light into building design. As sustainability becomes a core principal for designers, daylighting comes to the fore as an alternative to artificial, energy consuming, light. Here, Phillips makes a rational argument for considering daylight first, outlining the arguments in favour of a daylight approach, and goes on to show, through a series of beautifully illustrated case studies, how architects have created buildings in which natural light has been shown to play a major strategic role in the development of the design of a building.
Architectural Acoustics - Madan Mehta - 1999
Written by two educators and a practicing acoustical consultant, this reader-friendly book/reference covers all the important issues of architectural acoustics in a single volume --AND features a dual-level presentation that meets the needs of both those seeking depth and rigor, and those requiring a broad, practical perspective. Synthesizing acoustical theory with its practical applications, it provides exhaustivenarrative coverage of the subject (including advanced optional content and extensive mathematical appendixes) and extensive high-quality stand-alone illustrations -- for those who need to grasp concepts quickly without wading through long descriptions of complex acoustical phenomena. Explains complex acoustical phenomena and their practical details with relative ease. Provides over 500 stand-alone illustrations -- that, together with a cursory reading of the text, enable readers to grasp concepts quickly --without wading through long descriptions of complex acoustical phenomena. Contains a comprehensive list of important formulas in architectural acoustics.

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Kebudayaan, Ideologi, Revitalisasi dan Digitalisasi Seni Pertunjukan Jawa dalam Gawai - Ekawati Marhaenny Dukut - 2020-01-23

TJI (The Java Institute) adalah sebuah Pusat Studi yang bernaung di bawah LPPM (Lembaga Penelitian dan Pengabdian Masyarakat) di Universitas Katolik Soegijapranata di Semarang yang memiliki perhatian atas studi dan kajian tentang Pulau Jawa. Kegiatan penelitian, pengabdian masyarakat dan publikasi yang diadakan oleh karena merangkuli para akademisi dari lintas bidang ilmu. Hasil kegiatan TJI diharapkan bermanfaat bagi masyarakat lokal yang tinggal di Pulau Jawa dan masyarakat global yang mempunyai perhatian khusus terhadap phenomena yang berlangsung di Pulau Jawa. Dalam rangka menambahkan hasil publikasi tentang Pulau Jawa, TJI berkesempatan untuk menggelar Seminar Nasional yang ke-1 dengan tema: “Kebudayaan, Ideologi, Revitalisasi dan Digitalisasi Seni Pertunjukan Jawa dalam Gawai”. Rasional penyelenggaraan seminar nasional ini didasari oleh keadaan masyarakat yang mengalami revolusi industry 4.0 yang menitik beratkan pada produk-produk yang berhubungan dengan teknologi, dan atas masuknya masyarakat 5.0 yang menitik beratkan pada sumber daya manusia. Dengan mempunyai masyarakat dimana seni pertunjukan di Pulau Jawa yang tadinya di lapangan terbuka telah berkembang ke lapangan

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Controlling Air Movement - Terry S. Boutet - 1987-01-01

Controlling Air Movement -
Acoustics and Noise Control - R J Peters - 2013-11-12
Acoustics and Noise Control provides a detailed and comprehensive introduction to the principles and practice of acoustics and noise control. Since the last edition was published in 1996 there have been many changes and additions to standards, laws and regulations, codes of practice relating to noise, and in noise measurement techniques and noise control technology so this new edition has been fully revised and updated throughout. The book assumes no previous knowledge of the subject and requires only a basic knowledge of mathematics and physics. There are worked examples in the text to aid understanding and a range of experiments help students use complicated apparatus. Thoroughly revised to cover the latest changes in standards, codes of practice and legislation, this new edition covers much of the Institute of Acoustics Diploma syllabus and has an increased emphasis on the legal issues relating to noise control.

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**Environmental Acoustics** - Leslie L. Doelle - 1972
Offers architects, musicians, engineers, and other individuals concerned with the problems of environmental acoustics a guide to the acoustical design and construction of buildings.

**Acoustic Design** - Duncan Templeton - 2014-05-12
Architectural Press Library of Design and Detailing:
Acoustic Design focuses on the techniques and principles employed in acoustic design, as well as room acoustics, hearing, speech, sound insulation, and noise control and design. The book first elaborates on the perception of sound, properties of sound, and sound in the built form. Concerns cover sound absorption, room acoustics, sound insulation, physical data, units and measurement, sound at a point, and hearing and speech. The manuscript then takes a look at noise control and design. Topics include prediction and prescription, control at source, control in the sound path, building types, and building elements. The text is a valuable source of information for researchers interested in acoustic design.
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Design with Climate - - 1963

Principles of Human Geography - Ellsworth Huntington - 1921

Room Acoustics - Heinrich Kuttruff - 2016-10-03
Well established as a classic reference and specialised textbook, since its first publication in 1973, Heinrich Kuttruff’s Room Acoustics combines detailed coverage with a state of art presentation of the theory and practice of sound behaviour in closed spaces. This sixth edition presents several additional new sections, for instance on the reflection of a spherical wave from a wall, on finite element methods for sound field calculation and on virtual reality, as well as giving an overhaul of the standard material. Particular emphasis is given to the properties and calculation of reverberation, the most obvious acoustical feature of a room. And further key topics include the various mechanisms of sound absorption and their practical application as well as scattering by wall irregularities including pseudo-stochastic structures. Extensive space is given to of psychoacoustic insights and the quality criteria derived from them, along with new procedures for the sensory assessment of concert hall acoustics. As in earlier editions, one full and updated chapter is devoted to the
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**Tropical Urban Regionalism** - Ken Yeang - 1987

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**Environmental Science in Building** - Randall McMullan - 1998-11-11
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A New Look at the Research Basis for Lighting Level Recommendations - Gary Yonemura - 1976

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American National Standard Practice for Office Lighting - - 2004

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Climate Responsive Architecture - Arvind Krishan - 2001

The architect community is not far behind in this endeavour. Climate Responsive Architecture has become a prime issue for architects. Since most of the literature in this area is physics oriented, it is somewhat difficult for
the outcome of a long drawn principles to practice. The book has been written with a view to make data, such as climatic zones, temperature zones, and other climatic parameters more comprehensible. The book is the outcome of a long drawn research in the area of CRA and boasts of international names such as Dr Nick Baker, Prof Szokolay, Prof Simos Yannas and Dr Jeffrey Cook among others.

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**Daylight Glare in Offices** - Jan Wienold - 2010
The influence of discomfort glare is often underestimated in daylighting design and in the use of buildings. Many façade solutions are intended to increase the amount of daylight penetrating the room and creating a glare free environment at the same time. But as soon as a planning process comes to the point to quantify the glare freeness of a solution, the question of suitable glare measure arises. To analyze the reliability of existing glare rating methods, user assessments under real daylight conditions in office like test rooms are designed and carried out at two sites using different Venetian blinds and a foil system. For the evaluation of high dynamic digital images, a new tool "evalglare" is developed. The existing glare rating
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**Indonesian Houses** - R. Schefold - 2008-01-01
This collection aims to attract attention to the admirable achievements of indigenous builders in Indonesia and to contribute to a broader sense of commitment to the endangered architectural heritage in the region. It presents the second part of the results of a research project on vernacular architecture in western Indonesia, sponsored by the Royal Netherlands Academy of Sciences. The volume is intended to provide an introduction to all relevant vernacular architectural traditions and developments in western Indonesia.

**Accessible Architecture** - Joachim Fischer - 2010-10
Freedom from barriers makes an independent and self-determined lifestyle possible, encouraging mobility and integration in the cohabitation of all groups of people, including the elderly and disabled, group that have been marginalized for a long time in the design and planning of houses and building. From houses, offices and museums to specific spaces like kitchens, approximate 50 current projects are presented with the help of texts, photos, plans and diagrams. These
Solar Control and Shading
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Devices - Aladar Olgyay - 1976

Solar Control and Shading Devices - Aladar Olgyay - 1976

Energy-efficient Office Refurbishment - Simon Burton - 2013-10-18
Little has been published on the subject of energy-efficient refurbishment of offices, despite the growing need to refurbish older office building stock throughout Europe, and the global requirement to conserve energy. The book suggests the most energy efficient and environmentally friendly way to refurbish offices using examples of real buildings and designs wherever possible. Each case study includes a building description, the retrofitting strategy, passive and low energy technologies used, energy assessment, comfort and environment assessment, financial assessment, client and market assessment, and conclusion. This practical design manual will be invaluable for architects and
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Daylighting, Architecture and Health - Mohamed Boubekri - 2008
Daylighting, Architecture and Health examines the relationship between natural light in buildings and human health, considering both psychological and physiological issues and bringing together a range of research in the field. As we are becoming increasingly conscious of global warming and pushing towards energy efficiency in buildings, the book examines the question of daylighting from the perspective of the health of building occupants. It gathers
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Basics Design Methods - Kari Jormakka - 2017-05-22
Architects often employ design methods to help them...
Architects often employ design methods to help them find more creative forms. These methods make it possible to break free of the traditional canon of forms and established paradigms. At the same time, there must be enough leeway for a functional, systematic design conception to take shape. This volume focuses in depth on the design methods that have decisively shaped current architectural practice. Themes are - Diagrammatic methods (using drawings and schematic representations), - Mimetic methods (imitative), - Parametric methods (using a characteristic quantity), - Automated and digital design methods of the contemporary avant-garde, e.g. scaling, datascapes, folding, and morphing.

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Artemis - Virginia Loh-Hagan - 2017-01-01

Artemis in the Gods and Goddesses of the Ancient World series explores the fascinating drama, love stories, and destruction in the myths surrounding the goddess of the moon and forest. Book includes history, myths, and a family tree. Written with a high interest level to appeal to a more mature audience and a lower level of complexity with clear visuals to help struggling readers along. Considerate text includes tons of
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Surface Architecture -
David Leatherbarrow -
2005-02-11
A study of the building
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distinction between the
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elements of the building,
surface, architecture's cladding. Once the skin of the building became independent of its structure, it could just as well hang like a curtain, or like clothing. The focus of the relationship between structure and skin is the architectural surface. In tracing the handling of this surface, the authors examine both contemporary buildings and those of the recent past. Architects discussed include Albert Kahn, Ludwig Mies van der Rohe, Alison and Peter Smithson, Alejandro de la Sota, Robert Venturi, Jacques Herzog, and Pierre de Meuron. The properties of a building's surface—whether it is made of concrete, metal, glass, or other materials—are not merely superficial; they construct the spatial effects by which architecture communicates. Through its surfaces a building declares both its autonomy and its participation in its surroundings.

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A study of the building primary instrument of identity and engagement with its surroundings. Visually, many contemporary buildings either reflect their systems of production or recollect earlier styles and motifs. This division between production and representation is in some ways an extension of that between modernity and tradition. In this book, David Leatherbarrow and Mohsen Mostafavi explore ways that design can take advantage of production methods such that architecture is neither independent of nor dominated by technology. Leatherbarrow and Mostafavi begin with the theoretical and practical isolation of the building surface as the subject of architectural design. The autonomy of the surface, the "free facade," presumes a distinction between the structural and nonstructural elements of the building, between the frame and the cladding. Once the skin of the building became independent of its structure, it could just as well hang like a curtain, or like clothing. The focus of the
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**Building Services Design Methodology** - David Bownass - 2002-09-11

Building Services Design Methodology clearly sets out and defines the building services design process from concept to post-construction phase. By providing a step-by-step methodology for students and practitioners of service engineering, the book will encourage improved efficiency (both in environmental terms and in terms of profit enhancement) through better project management. Generic advice and guidance is set in the current legal and contractual context, ensuring that this will be required reading for professionals. The book's practical style is reinforced by a number of case studies.
movement; and designs be required reading for professionals. The book's practical style is reinforced by a number of case studies.

Finding Lost Space - Roger Trancik - 1991-01-16
The problem of "lost space," or the inadequate use of space, afflicts most urban centers today. The automobile, the effects of the Modern Movement in architectural design, urban-renewal and zoning policies, the dominance of private over public interests, as well as changes in land use in the inner city have resulted in the loss of values and meanings that were traditionally associated with urban open space. This text offers a comprehensive and systematic examination of the crisis of the contemporary city and the means by which this crisis can be addressed.

Finding Lost Space traces leading urban spatial design theories that have emerged over the past eighty years: the principles of Sitte and Howard; the impact of and reactions to the Functionalist movement; and designs developed by Team 10, Robert Venturi, the Krier brothers, and Fumihiko Maki, to name a few. In addition to discussions of historic precedents, contemporary approaches to urban spatial design are explored. Detailed case studies of Boston, Massachusetts; Washington, D.C.; Goteborg, Sweden; and the Byker area of Newcastle, England demonstrate the need for an integrated design approach--one that considers figure-ground, linkage, and place theories of urban spatial design. These theories and their individual strengths and weaknesses are defined and applied in the case studies, demonstrating how well they operate in different contexts. This text will prove invaluable for students and professionals in the fields of architecture, landscape architecture, and city planning. Finding Lost Space is going to be a primary text for the urban designers of the next generation. It is the first book in the field to absorb the lessons of the postmodern reaction, including the work of the...
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College Geometry with landscape architecture, and city planning. Finding Lost Space is going to be a primary text for the urban designers of the next generation. It is the first book in the field to absorb the lessons of the postmodern reaction, including the work of the Krier brothers and many others, and to integrate these into a coherent theory and set of design guidelines. Without polemics, Roger Trancik addresses the biggest issue in architecture and urbanism today: how can we regain in our shattered cities a public realm that is made of firmly shaped, coherently linked, humanly meaningful urban spaces? Robert Campbell, AIA Architect and architecture critic Boston Globe

Illustrated Guidebook to Electronic Devices and Circuits - Fredrick W. Hughes - 1983

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GeoGebra - Barbara E. Reynolds - 2021-02-01
From two authors who embrace technology in the classroom and value the role of collaborative learning comes College Geometry Using GeoGebra, a book that is ideal for geometry courses for both mathematics and math education majors. The book's discovery-based approach guides students to explore geometric worlds through computer-based activities, enabling students to make observations, develop conjectures, and write mathematical proofs. This unique textbook helps students understand the underlying concepts of geometry while learning to use GeoGebra software—constructing various geometric figures and investigating their properties, relationships, and interactions. The text allows students to gradually build upon their knowledge as they move from fundamental concepts of circle and triangle geometry to more advanced topics such as isometries and
classroom and value the role plane, and hyperbolic and projective geometry. Emphasizing active collaborative learning, the text contains numerous fully-integrated computer lab activities that visualize difficult geometric concepts and facilitate both small-group and whole-class discussions. Each chapter begins with engaging activities that draw students into the subject matter, followed by detailed discussions that solidify the student conjectures made in the activities and exercises that test comprehension of the material. Written to support students and instructors in active-learning classrooms that incorporate computer technology, College Geometry with GeoGebra is an ideal resource for geometry courses for both mathematics and math education majors. College Geometry with GeoGebra - Barbara E. Reynolds - 2021-02-01 From two authors who embrace technology in the of collaborative learning comes College Geometry Using GeoGebra, a book that is ideal for geometry courses for both mathematics and math education majors. The book's discovery-based approach guides students to explore geometric worlds through computer-based activities, enabling students to make observations, develop conjectures, and write mathematical proofs. This unique textbook helps students understand the underlying concepts of geometry while learning to use GeoGebra software—constructing various geometric figures and investigating their properties, relationships, and interactions. The text allows students to gradually build upon their knowledge as they move from fundamental concepts of circle and triangle geometry to more advanced topics such as isometries and matrices, symmetry in the plane, and hyperbolic and projective geometry. Emphasizing active collaborative learning, the
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**Urban Parks and Open Space** - Alexander Garvin - 1997
Describes how 15 derelict areas of the United States were developed into thriving new parks and offers advice to public agencies and private developers on how to go about revitalizing urban areas. The text includes information on financing techniques, design, management and programming.

**New City Spaces** - Jan Gehl - 2003
The upsurge in interest in public spaces and public life over the past twenty five years has generated an impressive array of city plans, public space strategies, and designs. This book presents an overview of this development and provides a detailed description of architecturally interesting and inspiring public space areas.
strategies were selected for all over the world. Nine cities with notable public space strategies were selected for special review: Barcelona, Lyon, Strasbourg, Freiburg, and Copenhagen in Europe, Portland in North America, Curitiba and Cordoba in South America, and Melbourne in Australia. In addition, thirty nine international public space projects are presented and discussed. Drawings, plans and photographs illustrate city strategies and public space projects in detail.

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**Sunlighting as Formgiver for Architecture** - William M. C. Lam - 1986
Donated.

**Sustainable Site Design** - Claudia Dinep - 2010-05-18
Sustainable Site Design introduces the core concepts of sustainability as applied to landscape architecture. Focusing on site-scale design, this book provides a regional framework for integrating sustainable practices.
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"Designed as the ideal companion to the unparalleled architectural acoustical design and teaching tool, Architectural Acoustics on CD-ROM, this print resource also stands alone. It contains all the tools and tricks you need to master the acoustics of any space."--BOOK JACKET.

Modelling and Predicting Textile Behaviour - Xiaogang Chen - 2009-11-30
The textile industry can experience a vast array of problems. Modelling represents a group of techniques that have been...
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The textile industry can experience a vast array of problems. Modelling represents a group of techniques that have been widely used to explore the nature of these problems, it can highlight the mechanisms involved and lead to predictions of the textile behaviour. This book provides an overview of how textile modelling techniques can be used successfully within the textile industry for solving various problems.

The first group of chapters reviews the different types of models and methods available for predicting textile structures and behaviour. Chapters include modelling of yarn, woven and nonwoven materials. The second group of chapters presents a selection of case studies, expressing the strengths and limitations and how various models are applied in specific applications. Case studies such as modelling colour properties for textiles and modelling, simulation and control of textile dyeing are discussed. With its distinguished editor and international range of contributors, Modelling and predicting textile behaviour is essential reading material for textile technologists, fibre scientists and textile engineers. It will also be beneficial for academics researching this important area. Provides an overview of the different types of models and methods that can be used successfully within the textile industry.
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**Buildings for the Performing Arts** - Ian Appleton - 1996

Ian Appleton's book is an essential guide for those who are involved in the initiation, planning, design and building of facilities for the various performing arts, from local to metropolitan locations. It includes the stages in the development, decisions to be taken, information requirements, feasibility and advice necessary in the design and development of a new or adapted building. Part one of this guide provides the background information about the organisation of the performing arts, the prevailing issues, the client and various building types. In the second part, the author deals with the components of design and development, identifying the roles of the client, advisors and
includes the stages in the achieved, including client's proposal feasibility, the process of briefing, design and building and eventually hand-over and opening night, with a consideration of the building in use. Case studies are included which cover the assessment of demand, site requirements, initial brief, building design and financial viability. Information requirements, as design standards, for the auditorium and platform/stage, and the support facilities, are included. The content covers a wide range of performing arts (classical music, pop/rock, jazz, musicals, dance, drama) and provides information on each as an art form and the necessities to house performances correctly.

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**Young Men and Fire** -
Norman Maclean - 2017-05-01

A devastating and lyrical work of nonfiction, Young Men and Fire describes the events of August 5, 1949, when a crew of fifteen of the US Forest Service’s elite airborne firefighters, the Smokejumpers, stepped into the sky above a remote forest fire in the Montana wilderness. Two hours after their jump, all but three of the men were dead or mortally burned. Haunted by these deaths for forty years, Norman Maclean puts together the scattered pieces of the Mann Gulch tragedy in Young Men and Fire, which won the National Book Critics Circle Award. Alongside Maclean’s now-canonical *A River Runs through It* and *Other Stories*, Young Men and Fire is recognized today as a classic of the American West.

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Maclean’s now-canonical A River Runs through It and Other Stories, Young Men and Fire is recognized today as a classic of the American West. This twenty-fifth anniversary edition of Maclean’s later triumph—the last book he would write—includes a powerful new foreword by Timothy Egan, author of The Big Burn and The Worst Hard Time. As moving and profound as when it was first published, Young Men and Fire honors the literary legacy of a man who gave voice to an essential corner of the American soul.

**Ecodesign - Ken Yeang - 2008-05-27**

You'll find clear instructions on how to design, build and use a green sustainable architecture in Ecodesign. Author Ken Yeang will show you how to produce and maintain ecosystem-like structures and systems whose content and outputs not only integrate benignly with the natural environment, but whose built form and systems function with sensitivity to the locality's ecology as well in relation to global biospheric processes. He will help you learn to develop structures and systems that are low consumers of non-renewable resources, built with materials that have low ecological consequences and are designed to facilitate disassembly, continuous reuse and recycling, and that at the end of their useful lives can be reintegrated seamlessly back into the natural environment. Each of these aspects, and other attendant ones, is examined in detail with regards to how they influence design and planning.
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