

# Building Science Concepts And Applications

*Application of Geographic Information Systems, Simulation Models, and Knowledge-based Systems for Landuse Management* 1990  
**Journal of the American Concrete Institute** American Concrete Institute 1978  
*Building Research* 1966  
*New Scientist* 1969  
**Proceedings of the Symposium on the Performance Concept in Building** 1987  
**Energy Research Abstracts** 1977 Semiannual, with semiannual and annual indexes. References to all scientific and technical literature coming from DOE, its laboratories, energy centers, and contractors. Includes all works deriving from DOE, other related government-sponsored information, and foreign nonnuclear information. Arranged under 39 categories, e.g., Biomedical

sciences, basic studies; Biomedical sciences, applied studies; Health and safety; and Fusion energy. Entry gives bibliographical information and abstract. Corporate, author, subject, report number indexes.

*Environment and Planning* 1984

The Elements of General Method Charles Alexander McMurry 1892

*Catalog* Söul Taehakkyo 2000  
Science for the Elementary and Middle School Edward Victor 1997 This text provides a source of science content, methods and activities. It examines effective science teaching methods, explores how science instruction helps children improve knowledge-gaining skills, and provides the content, information and activities needed for a complete science course.

**Annual Book of ASTM Standards** ASTM International

2003

**Annual Report** Central  
Building Research Institute  
(India) 1966

*The Application of Systematic  
Methods to Designing* Design  
Methods Group 1975

*The Emergence of Building  
Science* Jens G. Pohl  
2007-12-01

**Resources in Education** 1995  
**Building Science Abstracts**  
1930

**Building Science** Jens Pohl  
2020-09-14 With the improved efficiency of heating, cooling and lighting in buildings crucial to the low carbon targets of all current governments, *Building Science: Concepts and Applications* provides a timely and much-needed addition to the existing literature on architectural and environmental design education. Taking a logical and didactic approach, the author introduces the reader to the underlying concepts and principles of the thermal, lighting, and acoustic determinants of building design in four integrated sections. The first section

explores the thermal building environment and the principles of thermal comfort, translating these principles into conceptual building design solutions. The author examines the heat flow characteristics of the building envelope and explains steady state design methods that form the basis of most building codes. He discusses the sun as a natural heat source and describes the principles of active and passive solar building design solutions. The second section introduces the scientific principles of light, color, and vision, stressing the importance of daylight in building design, presenting the Daylight Factor design concept and methodology, and discussing glare conditions and their avoidance. It also addresses artificial lighting, delving into the prominent role that electricity plays in the production of light by artificial means and comparing the efficacy and characteristics of the various commercially available light sources in terms of the energy to light conversion ratio, life span,

available intensity range, color rendition properties, and cost. The third section deals with the various aspects of sound that impact the design of the built environment, discussing the nature of sound as a physical force that sets any medium through which it travels into vibration and laying the foundations for the treatment of sound as an important means of communication as well as a disruptive disturbance. The final section discusses the foundational concepts of ecological design as a basis for addressing sustainability issues in building design solutions. These issues include the embedded energy of construction materials, waste management, preservation of freshwater and management of graywater, adoption of passive solar principles, energy saving measures applicable to mechanical building services, and the end-of-lifecycle deconstruction and recycling of building materials and components. Covers the fundamental building science

topics of heat, energy, light and sound Takes a logical and didactic approach, tracing the historical roots of building science Includes summaries of new technologies in solar energy and photovoltaic systems Features a section on the principles of sustainable architecture Website with answers to MC questions testing students' learning

**Accreditation Report, National Architectural Accrediting Board 1980**  
[Building Research News 1972](#)  
[Building Science Directory](#)

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