

Building Codes Illustrated A Guide To Understanding The 2006 International Building Code

R-value (insulation)

Energy (Illustrated ed.). Hoboken, NJ: Wiley. p. 276. ISBN 978-0-470-64780-6. Krause, Carolyn (Summer 1980). "The Promise of Energy-Efficient Buildings". Oak

The R-value is a measure of how well a two-dimensional barrier, such as a layer of insulation, a window or a complete wall or ceiling, resists the conductive flow of heat, in the context of construction. R-value is the temperature difference per unit of heat flux needed to sustain one unit of heat flux between the warmer surface and colder surface of a barrier under steady-state conditions. The measure is therefore equally relevant for lowering energy bills for heating in the winter, for cooling in the summer, and for general comfort.

Gray code

binary codes, positions 3 and 4 are next to each other but all three bits of the binary representation differ: The problem with natural binary codes is that

The reflected binary code (RBC), also known as reflected binary (RB) or Gray code after Frank Gray, is an ordering of the binary numeral system such that two successive values differ in only one bit (binary digit).

Building code

Examples of building codes began in ancient times. In the USA the main codes are the International Building Code or International Residential Code [IBC/IRC]

A building code (also building control or building regulations) is a set of rules that specify the standards for construction objects such as buildings and non-building structures. Buildings must conform to the code to obtain planning permission, usually from a local council. The main purpose of building codes is to protect public health, safety and general welfare as they relate to the construction and occupancy of buildings and structures — for example, the building codes in many countries require engineers to consider the effects of soil liquefaction in the design of new buildings. The building code becomes law of a particular jurisdiction when formally enacted by the appropriate governmental or private authority.

Stairs

away from the inner edge on which people are expected to walk. The building code will specify the distance. Building codes will then specify the minimum

Stairs are a structure designed to bridge a large vertical distance between lower and higher levels by dividing it into smaller vertical distances. This is achieved as a diagonal series of horizontal platforms called steps which enable passage to the other level by stepping from one to another step in turn. Steps are very typically rectangular. Stairs may be straight, curved, or may consist of two or more straight pieces connected at angles.

The professional requirements for architects vary from location to location. An architect's decisions affect public safety, and thus the architect must undergo specialised training consisting of advanced education and a practicum (or internship) for practical experience to earn a license to practice architecture. Practical, technical, and academic...

Barlow hypothesized that the spikes in the sensory system formed a neural code for efficiently representing sensory information. By efficient it is understood that the code minimized the number of spikes needed to transmit a given signal. This is somewhat analogous to transmitting information across the internet, where different file formats can be used to transmit a given image. Different file formats require different numbers of bits for representing the same image at a given distortion level, and some are better suited for representing...

Building codes are generally intended to be applied by architects, engineers...

Architect

such as the use of different projections to describe a three-dimensional building in two dimensions, together with an increased understanding of dimensional

An architect is a person who plans, designs, and oversees the construction of buildings. To practice architecture means to provide services in connection with the design of buildings and the space within the site surrounding the buildings that have human occupancy or use as their principal purpose. Etymologically, the term architect derives from the Latin architectus, which derives from the Greek (arkhi-, chief + tekton, builder), i.e., chief builder.

For example, the representation of the decimal value "1" in binary would normally be "001", and "2" would be "010". In Gray code, these values are represented as "001" and "011". That way, incrementing a value from 1 to 2 requires only one bit to change, instead of two.

Pre-Code Hollywood

enforcement of the Motion Picture Production Code censorship guidelines (popularly known as the Hays Code) in 1934. Although the Hays Code was adopted in

Pre-Code Hollywood was an era in the American film industry that occurred between the widespread adoption of sound in film in the late 1920s and the enforcement of the Motion Picture Production Code censorship guidelines (popularly known as the Hays Code) in 1934. Although the Hays Code was adopted in 1930, oversight was poor, and it did not become rigorously enforced until July 1, 1934, with the establishment of the Production Code Administration. Before that date, film content was restricted more by local laws, negotiations between the Studio Relations Committee (SRC) and the major studios, and popular opinion than by strict adherence to the Hays Code, which was often ignored by Hollywood filmmakers.

As a result, some films in the late 1920s and early 1930s depicted or implied sexual innuendo...

Efficient coding hypothesis

The efficient coding hypothesis was proposed by Horace Barlow in 1961 as a theoretical model of sensory neuroscience in the brain. Within the brain, neurons

The efficient coding hypothesis was proposed by Horace Barlow in 1961 as a theoretical model of sensory neuroscience in the brain. Within the brain, neurons communicate with one another by sending electrical impulses referred to as action potentials or spikes.

Retaining wall

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Retaining walls are relatively rigid walls used for supporting soil laterally so that it can be retained at different levels on the two sides. Retaining walls are structures designed to restrain soil to a slope that it would not naturally keep to (typically a steep, near-vertical or vertical slope). They are used to bound soils between two different elevations often in areas of inconveniently steep terrain in areas where the landscape needs to be shaped severely and engineered for more specific purposes like hillside farming or roadway overpasses. A retaining wall that retains soil on the backside and water on the frontside is called a seawall or a bulkhead.

The R-value is the building industry term for thermal resistance "per unit area." It is sometimes denoted RSI-value if the SI units are used. An R-value can be given for a material (e.g., for polyethylene foam), or for an assembly of materials (e.g., a wall or...

Types of stairs include staircases (also called stairways) and escalators. Some alternatives to stairs are elevators (also called lifts), stairlifts, inclined moving walkways, ladders, and ramps. A stairwell is a vertical shaft or opening that contains a staircase. A flight (of stairs) is an inclined part of a staircase consisting of steps (and their lateral...

Frank Ching

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Francis D. K. "Frank" Ching (born 1943) is an American architecture and design graphics writer. He is Professor Emeritus at the University of Washington.

Burglary

is a property crime involving the illegal entry into a building or other area without permission, typically with the intention of committing a further

Burglary, also called breaking and entering (B&E) or housebreaking, is a property crime involving the illegal entry into a building or other area without permission, typically with the intention of committing a further criminal offence. Usually that offence is theft, larceny, robbery, or murder, but most jurisdictions include others within the ambit of burglary. To commit burglary is to burgle, a term back-formed from the word burglar, or to burglarize.

Gray codes are widely used to prevent spurious output from electromechanical switches and to facilitate error correction in digital communications such as digital terrestrial television and some cable TV systems. The use of Gray code in these devices helps simplify logic operations and reduce errors in practice.

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