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This Brief defines reliable correlations between the food packaging design and its chemical features in terms of an 'integrated food product' (the synergistic union composed of the edible content and its container). A good design, as described in this Brief, implies the best choices from a series of possibilities, taking into account economical and commercial influences or limitations in the production and processing chain and the chemical interactions that can arise between the food containers and the contained edible material. This Brief highlights how the different requirements can be combined, while avoiding dangerous food risks originating from the chemical interaction between the container and the product. Different designs are critically analysed with relation to the effect on contained foods. The influences and resulting consequences of different possible food packaging designs are highlighted and discussed in selected case studies for some every-day products (like potato chips).

This book is a printed edition of the Special Issue "Scalable Interactive Visualization" that was published in Informatics

Advances in Thermal Energy Storage Systems, 2nd edition, presents a fully updated comprehensive analysis of thermal energy storage systems (TES) including all major advances and developments since the first edition published. This very successful publication provides readers with all the information related to TES in one resource, along with a variety of applications across the energy/power and construction sectors, as well as, new to this edition, the transport industry. After an introduction to TES systems, editor Dr. Luisa Cabeza and her team of expert authors consider the source, design and operation of the use of water, molten salts, concrete, aquifers, boreholes and a variety of phase-change materials for TES systems, before analyzing and simulating underground TES systems. This edition benefits from 5 new chapters covering the most advanced technologies including sorption systems, thermodynamic and dynamic modelling as well as applications to the transport industry and the environmental and economic aspects of TES. It will benefit researchers and academics of energy systems and thermal energy storage, construction engineering academics, engineers and practitioners in the energy and power industry, as well as architects of plants and storage systems and R&D managers. Includes 5 brand new chapters covering Sorption systems, Thermodynamic and dynamic models, applications to the transport sector, environmental aspects of TES and economic aspects of TES All existing chapters are updated and revised to reflect the most recent advances in the research and technologies of the field Reviews heat storage technologies, including the use of water, molten salts, concrete and boreholes in one comprehensive resource Describes latent heat storage systems and thermochemical heat storage Includes information on the monitoring and control of thermal energy storage systems, and considers their applications in residential buildings, power plants and industry

The Special Issue "Industrial and Technological Applications of Power Electronics Systems" focuses on: - new strategies of control for electric machines, including sensorless control and fault diagnosis; - existing and emerging industrial applications of GaN and SiC-based converters; - modern methods for electromagnetic compatibility. The book covers topics such as control systems, fault diagnosis, converters, inverters, and electromagnetic interference in power electronics systems. The Special Issue includes 19 scientific papers by industry experts and worldwide professors in the area of electrical engineering.
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DNA damage is a major threat to genomic integrity and cell survival. It can arise both spontaneously and in response to exogenous agents. DNA damage can attack most parts of the DNA structure, ranging from minor and major chemical modifications, to single-strand breaks (SSBs) and gaps, to full double-strand breaks (DSBs). If DNA injuries are mis-repaired or unrepaired, they may ultimately result in mutations or wider-scale genome aberrations that threaten cell homeostasis. Consequently, the cells elicit an elaborate signalling network, known as DNA damage response (DDR), to detect and repair these cytotoxic lesions. This Research Topic was aimed at comprehensive investigations of basic and novel mechanisms that underlie the DNA damage response in eukaryotes.

Mastering a rich repertoire of motor behaviors, as humans and other animals do, is a surprising and still poorly understood outcome of evolution, development, and learning. Many degrees-of-freedom, non-linear dynamics, and sensory delays provide formidable challenges for controlling even simple actions. Modularity as a functional element, both structural and computational, of a control architecture might be the key organizational principle that the central nervous system employs for achieving versatility and adaptability in motor control. Recent investigations of muscle synergies, motor primitives, compositionality, basic action concepts, and related work in machine learning have contributed to advance, at different levels, our understanding of the modular architecture underlying rich motor behaviors. However, the existence and nature of the modules in the control architecture is far from settled. For instance, regularity and low-dimensionality in the motor output are often taken as an indication of modularity but could they simply be a byproduct of optimization and task constraints? Moreover, what are the relationships between modules at different levels, such as muscle synergies, kinematic invariants, and basic action concepts? One important reason for the new interest in understanding modularity in motor control from different viewpoints is the impressive development in cognitive robotics. In comparison to animals and humans, the motor skills of today ' s best robots are limited and inflexible. However, robot technology is maturing to the point at which it can start approximating a reasonable spectrum of isolated perceptual, cognitive, and motor capabilities. These advances allow researchers to explore how these motor, sensory and cognitive functions might be integrated into meaningful architectures and to test their functional limits. Such systems provide a new test bed to explore different concepts of modularity and to address the interaction between motor and cognitive processes experimentally. Thus, the goal of this Research Topic is to review, compare, and debate theoretical and experimental investigations of the modular organization of the motor control system at different levels. By bringing together researchers seeking to understand the building blocks for coordinating many muscles, for planning endpoint and joint trajectories, and for representing motor and behavioral actions in memory we aim at promoting new interactions between often disconnected research areas and approaches and at providing a broad perspective on the idea of modularity in motor control. We welcome original research, methodological, theoretical, review, and perspective contributions from behavioral, system, and computational motor neuroscience research, cognitive psychology, and cognitive robotics.

This Brief is concerned with the connection between food packaging and the chemical composition of packaging materials. In terms of the food packaging hygiene, the influence of the containers on the contained foods is discussed. The book explores new and emerging risks related to food packaging materials in connection with the contained commodities. It also discusses the technology of production with relation to the chemical risk in a " Hazard Analysis and Critical Control Point " (HACCP) investigation.

Over the past two years a pandemic has gripped the planet in fear with lockdowns, restrictions, and a transition into a unknown future with transhumanism at its helm. While the flow of information has been heavily censored and controlled by a new "fact checker" system, humanity seemingly is only getting one side of the story. The SARS-Cov2 has been manipulated by the mass media keeping people locked in their homes afraid to go out. Controversial theories including this virus being imaginary and that the virus was engineered to control the world population are at the helm of the argument. Part one of the third installment of the series questions the state of humanity's future and the fate of our very race with our environmental habits, vaccines and their supposed purpose, what it means to be human and our beliefs. Has humanity reached its zenith? With the 2030 agenda pushed by the United Nations and their praise for what some are calling the "scamdemic/plandemic" as a means of starting over, is humanity to begin what most are calling the Great Reset? Is the next stage in our evolution dominated by RFID implanted chips, vaccine passports with the promise of returning to a "normal life," and a biotechnology? The horizon in humanity's future seems mysterious and hidden.

This is a book about discovery and disaster, exploitation and invention, warfare and science - and the relationship between human beings and the chemical elements that make up our planet. Lars Ohrstrom introduces us to a variety of elements from S to Pb through tales of ordinary and extraordinary people from around the globe. We meet African dictators controlling vital supplies of uranium; eighteenth-century explorers searching out sources of precious metals; industrial spies stealing the secrets of steel-making. We find out why the Hindenburg airship was tragically filled with hydrogen, not helium; why nail-varnish remover played a key part in World War I; and the real story behind the legend of tin buttons and the downfall of Napoleon. In each chapter, we find out about the distinctive properties of each element and the concepts and principles that have enabled scientists to put it to practical use. These are the fascinating (and sometimes terrifying) stories of chemistry in action.
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