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their specific design philosophy. It was principally written for non-seismic structures. The handbook contains eleven chapters, each dealing with a specific aspect of precast building structures. The

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something unique to precast concrete buildings. The second chapter offers basic design recommendations that take into account the possibilities, restrictions and advantages of precast concrete, along with its

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*detailing, manufacture,
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*Chapter three describes the
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*buildings, hotels,
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car parks. Different
application possibilities
are explored to teach us
which types of precast units
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four covers the basic design principles and systems related to stability.

Precast concrete structures should be designed according to a specific stability concept, unlike cast in-situ structures. Chapter five

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discusses structural connections. Chapters six to nine address the four most commonly used systems or subsystems of precast concrete in buildings, namely, portal and skeletal structures, wall-frame

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structures, floor and roof structures and architectural concrete facades. In chapter ten the design and detailing of a number of specific construction details in precast elements are discussed, for example,

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*supports, corbels, openings
and cutouts in the units,
special features related to
the detailing of the
reinforcement, and so forth.
Chapter eleven gives
guidelines for the fire
design of precast concrete*

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structures. The handbook concludes with a list of references to good literature on precast concrete construction.

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history of vehicle electrification, what the various terminology means, and how to do some simple calculations that can be used in determining basic battery sizing, capacity, voltage and energy. By the end of this book the reader has a solid understanding of all of the terminology around Li-ion

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batteries and is able to do some simple battery calculations. The book is immensely useful to beginning and experienced engineer alike who are moving into the battery field. Li-ion batteries are one of the most unique systems in automobiles today in that they combine multiple engineering

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disciplines, yet most engineering programs focus on only a single engineering field. This book provides you with a reference to the history, terminology and design criteria needed to understand the Li-ion battery and to successfully lay out a new battery concept. Whether you are an electrical

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differences between various Li-ion cell types and chemistries and enables the determination which chemistry and cell type is appropriate for which application Outlines the differences between battery types, e.g., power vs energy battery Presents graphically different vehicle configurations: BEV,

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design and development guidance across the spectrum of problem analysis, material applications, equipment specification, and sensor and control selection.

The use of solar collectors for domestic hot water over the past 20 years has demonstrated that solar

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heating systems are now founded on a reliable and mature technology.

However, the development of similar, but more complex, systems to provide both domestic hot water and space heating (solar combisystems) resulted in a diverse range of different designs that were not carefully optimized to

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reflect local climate and practice.

Application of energy-efficient building strategies such as improved thermal insulation and use of low temperature heat supply systems is becoming increasingly common. This trend, combined with growing environmental awareness and the subsidies available

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in certain countries, favours an increase in market share for solar combisystems. The need for guidelines in selecting the appropriate system and designing this system according to the specific needs of the building and the local environment is therefore now increasingly pressing.

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properties, variation of
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describes the basic principles, properties, applications of acoustical materials, materials produced by electrical charges, and pyrolytic graphite. The basic

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disadvantages of each strategy. Environmental functions are considered in terms of protective strategies and selective strategies. Protective strategies include solar

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and mechanical systems are provided. An understanding of how insulation conserves energy, and fundamentals of heat transfer are provided. Information on computer programs for heat transmission, mass and thermal capacity calculations is included. Examples

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are given that show how the document can be used to estimate energy savings attainable with thermal insulation in building wall and piping assemblies. Methods for optimizing insulation thicknesses are provided in a section on insulation economics. This

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David Littlefield is a senior lecturer at the University of the West of England, where he teaches in the department of planning and architecture. For many years he worked as a writer and

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