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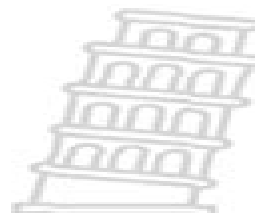
#### **LIFE SCIENCES P2**

**MARKS: 150**

**TIME: 2½ hours**



• 5 L F S C E 2 •



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This question paper consists of 15 pages.

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# Life Science P2 2013 Grade 1november

**Luciano Merlini, Paolo  
Bonaldo, Emanuele Marzetti**



## **Life Science P2 2013 Grade 1november:**

**Lithium-Ion Cells** Yury Koshtyal ,Alexander Rumyantsev,2024-12-24 A large quantity of articles and books have been published on the designated topics However most of the literary sources describe the results of scientific articles on the synthesis and study of perspective materials reveal circuit and design solutions for constructing control systems and manufacturing batteries and are educational materials At the same time a small part of the published sources includes the following descriptions of materials produced industrially and used in the LIC manufacturing process demonstrations of the industrially produced LIC energy and power parameters analysis of the characteristics of manufactured miniature lithium ion cells solid state LICs lithium metal cells and all solid state cells as well as others Considering the popularity of the discussed topics one can hope to find detailed information on the Internet Indeed modern search engines make it possible to locate a sufficiently large number of relevant documents However while conducting such research we encountered the following challenges the data are somewhat fragmented and their systematization and structuring are required search results do not always meet search queries For instance data that were relevant to the topic were found but they did not match the query as accumulated data grow the search time for new information extends the choice of search engine and location different countries affects search results the data are not indexed in search engines although the correct keywords and website were requested the information disappears due to website updates and the found data require additional processing For example many presentations show changes in the shape of the discharge curves depending on the discharge current strength In addition however Ragone plots are necessary for a correct comparison and therefore the mathematical processing of presented results is required Thus this book was written to systematize and structure information on industrially produced materials for LIC manufacturing and industrially produced and promising LICs and lithium metal rechargeable cells for various applications

Pathophysiological Mechanisms of Sarcopenia in Aging and in Muscular Dystrophy: A Translational Approach Luciano Merlini,Paolo Bonaldo,Emanuele Marzetti,2016-01-18 Loss of muscle mass and increased fibrosis characterize both sarcopenia of aging and muscular dystrophy Research is increasingly showing that these two conditions also share several pathophysiological mechanisms including mitochondrial dysfunction increased apoptosis abnormal modulation of autophagy decline in satellite cells increased generation of reactive oxygen species and abnormal regulation of signaling and stress response pathways This Research Topic will cover several mechanisms involved in aging and dystrophic sarcopenia and explore the therapeutic potential of various strategies for intervention

**Ecocultures** Steffen Böhm,Zareen Pervaz Bharucha,Jules Pretty,2014-12-05 The world faces a perfect storm of social and ecological stresses including climate change habitat loss resource degradation and social economic and cultural change In order to cope with these communities are struggling to transition to sustainable ways of living that improve well being and increase resilience This book demonstrates how communities in both developed and developing countries are already taking action to maintain or build

resilient and sustainable lifestyles These communities here designated as Ecocultures are exemplars of the art and science of sustainable living Though they form a diverse group they organise themselves around several common organising principles including an ethic of care for nature a respect for community high ecological knowledge and a desire to maintain and improve personal and social wellbeing Case studies from both developed and developing countries including Australia Brazil Finland Greenland India Indonesia South Africa UK and USA show how based on these principles communities have been able to increase social ecological and personal wellbeing and resilience They also address how other more mainstream communities are beginning to transition to more sustainable resilient alternatives Some examples also illustrate the decline of ecocultures in the face of economic pressures globalisation and climate change Theoretical chapters examine the barriers and bridges to wider application of these examples Overall the volume describes how ecocultures can provide the global community with important lessons for a wider transition to sustainability and will show how we can redefine our personal and collective futures around these principles

**A dynamic interplay between membranes and the cytoskeleton critical for cell development and signaling** Clément Thomas, Christopher J Staiger, 2014-10-23 Various cellular processes underlying plant development and response to environmental cues rely on a dynamic interplay between membranes and the cytoskeleton e g vesicle and organelle trafficking endocytosis exocytosis and signal transduction In recent years significant progress in the understanding of such interplay has been achieved and several critical links between membranes and the cytoskeleton have been characterized As an example recent work has clarified how auxin promotes the reorganization of cortical actin filaments by the activation of Rho GTPase pathways and how such reorganization in turn locally modifies endocytosis and or exocytosis and directs asymmetric distribution of PIN family of auxin transporters Another recent achievement is the characterization of the Rho and microtubule driven mechanism by which the cell wall architecture is established In particular the elegant work by Oda and Fukuda Science 337 p 1333 2012 provides evidence that secondary wall patterning in xylem vessel primarily relies on two processes a local activation of the plant Rho GTPase ROP11 and a mutual MIDD1 mediated inhibitory interaction between active ROP domains and cortical microtubules Additional examples include recent genetic evidence that microtubule and actin filament interacting regulatory proteins such as MAP65 1 and capping protein function as transducers of membrane lipid signaling into changes in cytoskeleton dynamics and organization This Research Topic aims at collecting a comprehensive set of articles dealing with cellular processes involving membrane cytoskeleton interactions Its scope extends beyond the specific fields defined by the above examples and includes intracellular trafficking host pathogen interactions response to biotic and abiotic stresses and hormonal regulation of growth We hope that this Research Topic will also highlight critical questions that need to be addressed in the future We welcomed Original Research Articles Technical Methodological Advances e g analysis of cytoskeleton dynamics close to membranes Reviews and Mini Reviews that can expand our understanding of how and why membranes and the cytoskeleton interact

*A Neoliberal Framework for Urban Housing Development in the Global South* Sampa Chisumbe, Clinton Ohis Aigbavboa, Erastus Mwanaumo, Wellington Didibhuku Thwala, 2024-03-22 A Neoliberal Framework for Urban Housing Development in the Global South highlights the factors which predict urban housing development from developing countries perspective providing a guide for countries in the sub Sahara

**Molecular, Cellular, and Ecological Processes of Haloarchaea** Yan Liao, Iain G. Duggin, Maria Ines Gimenez, Zhengshuang Hua, 2025-05-07 Extremely halophilic archaea salt loving archaea termed haloarchaea constitute one of the largest groups within the Archaea and inhabit the most hypersaline environments on Earth Due to their easy cultivation in the laboratory and rapid growth kinetics haloarchaea are excellent models for studying cell biology of Archaea Research into haloarchaea have enabled tremendous progress in various areas of archaeal biology including genetic evolution gene expression and regulation protein synthesis and adaptation structural dynamics and various biotechnological applications The detailed investigation of survival and adaptation mechanisms of haloarchaea to high salt environments have provided key insights into the boundaries of life improving our knowledge on life evolution on Earth and expanding the realms possible for the search for extraterrestrial life

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