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REPUBLIC OF SOUTH AFRICA

MARKING GUIDELINE

**NATIONAL CERTIFICATE
NOVEMBER EXAMINATION
ENGINEERING SCIENCE N4**

18 NOVEMBER 2014

This marking guideline consist of 9 pages.

Engineering Science November 2014 Memo

T.P. Burt,A.S. Goudie,H.A. Viles



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Parameters, 2017 Care and Repair of Advanced Composites Keith B Armstrong, William Cole, Eric Chesmar, Francois Museux, 2020-12-31 The new edition of the well known Care and Repair of Advanced Composites 3rd Edition improves on the usefulness of this practical guide geared towards the aerospace industry Keith B Armstrong the original lead author of the first edition was still in charge of this project counting on the expert support of Eric Chesmar senior composites specialist at United Airlines Mr Chesmar is also an active member of SAE International's CACRC Commercial Aircraft Composite Repair Committee an elite group of industry experts dedicated to the standardization safety security and efficiency of composite repairs in the airline industry Mr Francois Museux Airbus and Mr William F Cole II also contributed Care and Repair of Advanced Composites 3rd Edition presents a fully updated approach to the training syllabus recommended for repair design engineers and composite repair mechanics Metal bonding has been included partly because the definition of composite can be interpreted to include metal skinned honeycomb panels and partly because some composite parts have metal fittings or reinforcements that must be treated before bonding This third edition also covers a number of the problems experienced in service some of which may be applicable to metallic sandwich panels offers suggestions for design improvements including repair design as a particular topic and regulatory changes Care and Repair of Advanced Composites 3rd Edition provides solid technical information and training for a wide range of airline staff Needs and Opportunities in the Modern History of the U.S. Navy Michael J. Crawford, 2018 This is a compilation of a series of papers presented in conjunction with a year long lecture series sponsored by the Naval History and Heritage Command Provided by publisher *The History of the Study of Landforms or the Development of Geomorphology, Volume 5* T.P. Burt, A.S. Goudie, H.A. Viles, 2022-10-20 Co published with British Society for Geomorphology This volume is the fifth in the definitive series The History of the Study of Landforms or the Development of Geomorphology Volume 1 1964 dealt with contributions to the field up to 1890 Volume 2 1973 with the concepts and contributions of William Morris Davis and Volume 3 1991 covered historical and regional themes during the classic period of geomorphology 1890 1950 Volume 4 2008 concentrated on studies of geomorphological processes and Quaternary geomorphology between 1890 and 1965 by the end of this period process based studies had become dominant Volume 5 builds on this platform covering in detail the revolutionary changes in approach that characterized the study of geomorphology in the second half of the twentieth century It is divided into three sections the first deals with changes in approach and method the second with changes in ideas and the broader scientific context within which geomorphology is studied and the final section details advances in research on processes and landforms The volume's objective is to describe and analyse many of the developments that provide a foundation for the rich and varied subject matter of twenty first century geomorphology **Management of Legionella in Water Systems** National Academies of Sciences, Engineering, and Medicine, Health and Medicine Division, Division on Earth and Life Studies, Board on Population

Health and Public Health Practice, Board on Life Sciences, Water Science and Technology Board, Committee on Management of Legionella in Water Systems, 2020-02-20 Legionnaires disease a pneumonia caused by the Legionella bacterium is the leading cause of reported waterborne disease outbreaks in the United States Legionella occur naturally in water from many different environmental sources but grow rapidly in the warm stagnant conditions that can be found in engineered water systems such as cooling towers building plumbing and hot tubs Humans are primarily exposed to Legionella through inhalation of contaminated aerosols into the respiratory system Legionnaires disease can be fatal with between 3 and 33 percent of Legionella infections leading to death and studies show the incidence of Legionnaires disease in the United States increased five fold from 2000 to 2017 Management of Legionella in Water Systems reviews the state of science on Legionella contamination of water systems specifically the ecology and diagnosis This report explores the process of transmission via water systems quantification prevention and control and policy and training issues that affect the incidence of Legionnaires disease It also analyzes existing knowledge gaps and recommends research priorities moving forward

China as a Twenty-First Century Naval Power Michael A McDevitt, 2020-10-15 Xi Jinping has made his ambitions for the People's Liberation Army PLA perfectly clear there is no mystery what he wants first that China should become a great maritime power and secondly that the PLA become a world class armed force by 2050 He wants this latter objective to be largely completed by 2035 China as a Twenty First Century Naval Power focuses on China's navy and how it is being transformed to satisfy the world class goal Beginning with an exploration of why China is seeking to become such a major maritime power author Michael McDevitt first explores the strategic rationale behind Xi's two objectives China's reliance on foreign trade and overseas interests such as China's Belt and Road strategy In turn this has created concerns within the senior levels of China's military about the vulnerability of its overseas interests and maritime life lines is a major theme McDevitt dubs this China's sea lane anxiety and traces how this has required the PLA Navy to evolve from a near seas focused navy to one that has global reach a blue water navy He details how quickly this transformation has taken place thanks to a patient step by step approach and abundant funding The more than 10 years of anti piracy patrols in the far reaches of the Indian Ocean has acted as a learning curve accelerator to blue water status McDevitt then explores the PLA Navy's role in the South China Sea and the Indian Ocean He provides a detailed assessment of what the PLAN will be expected to do if Beijing chooses to attack Taiwan potentially triggering combat with America's first responders in East Asia especially the U S Seventh Fleet and U S Fifth Air Force He conducts a close exploration of how the PLA Navy fits into China's campaign plan aimed at keeping reinforcing U S forces at arm's length what the Pentagon calls anti access and area denial A2 AD if war has broken out over Taiwan or because of attacks on U S allies and friends that live in the shadow of China McDevitt does not know how Xi defines world class but the evidence from the past 15 years of building a blue water force has already made the PLA Navy the second largest globally capable navy in the world This book concludes with a forecast of what Xi's vision of a world class navy

might look like in the next fifteen years when the 2035 deadline is reached **Mental Models** Kirsten M. A. Revell, Neville A. Stanton, 2017-04-07 There is a resurgence of interest in mental models due to advances in our understanding of how they can be used to help design and due to the development of practical methods to elicit them This book brings both areas together with a focus on reducing domestic energy consumption The book focuses on how mental models can be applied in design to bring out behaviour change resulting in increased achievement of home heating goals reduced waste and improved comfort This book also offers a method to extract and apply mental models to interface design The approach enables mental models to be applied across domains when behaviour change was sought and is validated as a useful design method

PHilMech ,2010 **Yearbook of International Organizations 2014-2015, Volumes 1A And 1B (SET)** Union of International Associations, 2014-06-16 Volume 1 A and B covers international organizations throughout the world comprising their aims activities and events **California Agriculture** ,2016-10 **New Accessions List** World Data Center A for Glaciology, 1984 Water and Energy International ,2016 Iron & Coal Trades Review ,1908 Vol 115 includes Diamond jubilee issue 1867 1927 *Committee Meeting of Senate Environment and Energy Committee* New Jersey. Legislature. Senate. Environment and Energy Committee, 2016 MEED. ,1998 *Parliamentary Debates* India. Parliament. Rajya Sabha, 2017-04 **Subject Catalog of the Military Art and Science Collection in the Library of the United States Military Academy** United States Military Academy. Library, 1969 Dictionary Catalog of the Research Libraries of the New York Public Library, 1911-1971 New York Public Library. Research Libraries, 1979 **Ross A. McFarland Collection in Aerospace Medicine and Human Factors Engineering: Catalog of the library** Mary Ann Hoffman, Fordham Health Sciences Library (Wright State University), 1987 **Ross A. McFarland Collection in Aerospace Medicine and Human Factors Engineering** Mary Ann Hoffman, 1987

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