MEI Core 4

Vectors

Chapter Assessment

- 1. Find:
 - (i) $2 \begin{pmatrix} 1 \\ 4 \end{pmatrix} + \begin{pmatrix} 3 \\ -1 \end{pmatrix}$ [2]
 - (ii) $\binom{2}{-3}$ $\binom{2}{4}$ [2]
 - $\begin{pmatrix}
 2 \\
 1 \\
 0
 \end{pmatrix}
 \begin{pmatrix}
 -1 \\
 3 \\
 2
 \end{pmatrix}$ [2]
- 2. (i) Work out the angle between the vectors:
 - (a) $\begin{pmatrix} 2 \\ -1 \end{pmatrix}$ and $\begin{pmatrix} 3 \\ -2 \end{pmatrix}$ [3]
 - (b) $\begin{pmatrix} 2 \\ 1 \\ 4 \end{pmatrix}$ and $\begin{pmatrix} 1 \\ -2 \\ 3 \end{pmatrix}$ [3]
 - (ii) Show that the lines $\mathbf{r} = \begin{pmatrix} 2 \\ 1 \\ 0 \end{pmatrix} + \lambda \begin{pmatrix} -1 \\ 2 \\ 4 \end{pmatrix}$ and $\mathbf{r} = \begin{pmatrix} -1 \\ 3 \\ 2 \end{pmatrix} + \mu \begin{pmatrix} 2 \\ -5 \\ 3 \end{pmatrix}$ are perpendicular to each other.
- The points A, B and C have coordinates (2, -1), (3, 2) and (-4, 0) respectively.
 - (i) Write down the vectors \overrightarrow{AB} , \overrightarrow{AC} and \overrightarrow{BC} . [3]
 - (ii) Find BC . [2]
 - (iii) Find ∠ABC. [3]
- (i) Find the vector equation of the line joining A(2, -1, 0) to B(3, -2, -5).
 - (ii) Verify that A and B both lie on the plane 2x 3y + z = 7. [2]
 - (iii) Write down the vector equation of the line passing through A which is perpendicular to the plane. [2]
- The points A, B and C have coordinates (2, -1, 3), (4, -2, 0) and (1, -5, 0) respectively.

Mei M1 Vectors Chapter Assessment Answers

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Testing's Changing Role,1983 Artificial Intelligence Lu Fang, Daniel Povey, Guangtao Zhai, Tao Mei, Ruiping Wang, 2022-12-16 This three volume set LNCS 13604 13606 constitutes revised selected papers presented at the Second CAAI International Conference on Artificial Intelligence held in Beijing China in August 2022 CICAI is a summit forum in the field of artificial intelligence and the 2022 forum was hosted by Chinese Association for Artificial Intelligence CAAI The 164 papers were thoroughly reviewed and selected from 521 submissions CICAI aims to establish a global platform for international academic exchange promote advanced research in AI and its affiliated disciplines such as machine learning computer vision natural language processing and data mining amongst others Financial Statements-Based Bank Risk Aggregation Jianping Li, Lu Wei, Xiaoqian Zhu, 2022-03-15 This book proposes a bank risk aggregation framework based on financial statements Specifically bank risk aggregation is of great importance to maintain stable operation of banking industry and prevent financial crisis A major obstacle to bank risk management is the problem of data shortage which makes many quantitative risk aggregation approaches typically fail Recently to overcome the problem of inaccurate total risk results caused by the shortage of risk data some researchers have proposed a series of financial statements based bank risk aggregation approaches However the existing studies have drawbacks of low frequency and time lag of financial statements data and usually ignore off balance sheet business risk in bank risk aggregation Thus by reviewing the research progress in bank risk aggregation based on financial statements and improving the drawbacks of existing methods this book proposes a bank risk aggregation framework based on financial statements It makes full use of information recorded in financial statements including income statement on and off balance sheet assets and textual risk disclosures which solves the problem of data shortage in bank risk aggregation to some extent and improves the reliability and rationality of bank risk aggregation results This book not only improves the theoretical studies of bank risk aggregation but also provides an important support for the capital allocation of the banking industry in practice Thus this book has theoretical and practical importance for bank managers and researchers of bank risk management Microstructure And Properties Of Materials, Vol 2 James C M Li,2000-10-09 This is the second volume of an advanced textbook on microstructure and properties of materials The first volume is on aluminum alloys nickel based superalloys metal matrix composites polymer matrix composites ceramics matrix composites inorganic glasses superconducting materials and magnetic materials It covers titanium alloys titanium aluminides iron aluminides iron and steels iron based bulk amorphous alloys and nanocrystalline materials There are many elementary materials science textbooks but one can find very few advanced texts suitable for graduate school courses The contributors to this volume are experts in the subject and hence together with the first volume it is a good text for graduate microstructure courses It is a rich source of design ideas and applications and will provide a good understanding of how microstructure affects the properties of materials Chapter 1 on titanium alloys covers production thermomechanical

processing microstructure mechanical properties and applications Chapter 2 on titanium aluminides discusses phase stability bulk and defect properties deformation mechanisms of single phase materials and polysynthetically twinned crystals and interfacial structures and energies between phases of different compositions Chapter 3 on iron aluminides reviews the physical and mechanical metallurgy of Fe3Al and FeAl the two important structural intermetallics Chapter 4 on iron and steels presents methodology microstructure at various levels strength ductility and strengthening toughness and toughening environmental cracking and design against fracture for many different kinds of steels Chapter 5 on bulk amorphous alloys covers the critical cooling rate and the effect of composition on glass formation and the accompanying mechanical and magnetic properties of the glasses Chapter 6 on nanocrystalline materials describes the preparation from vapor liquid and solid states microstructure including grain boundaries and their junctions stability with respect to grain growth particulate consolidation while maintaining the nanoscale microstructure physical chemical mechanical electric magnetic and optical properties and applications in cutting tools superplasticity coatings transformers magnetic recordings catalysis and hydrogen Pattern Recognition. ICPR International Workshops and Challenges Alberto Del Bimbo, Rita storage Cucchiara, Stan Sclaroff, Giovanni Maria Farinella, Tao Mei, Marco Bertini, Hugo Jair Escalante, Roberto Vezzani, 2021-02-20 This 8 volumes set constitutes the refereed of the 25th International Conference on Pattern Recognition Workshops ICPR 2020 held virtually in Milan Italy and rescheduled to January 10 11 2021 due to Covid 19 pandemic The 416 full papers presented in these 8 volumes were carefully reviewed and selected from about 700 submissions The 46 workshops cover a wide range of areas including machine learning pattern analysis healthcare human behavior environment surveillance forensics and biometrics robotics and egovision cultural heritage and document analysis retrieval and women at ICPR2020

Mathematical Reviews ,2001 Advances in Multimedia Modeling Shipeng Li, Abdulmotaleb El Saddik, Meng Wang, Tao Mei, Nicu Sebe, Shuicheng Yan, Richang Hong, Cathal Gurrin, 2013-01-05 The two volume set LNCS 7732 and 7733 constitutes the thoroughly refereed proceedings of the 19th International Conference on Multimedia Modeling MMM 2012 held in Huangshan China in January 2013 The 30 revised regular papers 46 special session papers 20 poster session papers and 15 demo session papers and 6 video browser showdown were carefully reviewed and selected from numeroues submissions The two volumes contain papers presented in the topical sections on multimedia annotation I and II interactive and mobile multimedia classification recognition and tracking I and II ranking in search multimedia representation multimedia systems poster papers special session papers demo session papers and video browser showdown Data Mining and Methods for Early Detection, Horizon Scanning, Modelling, and Risk Assessment of Invasive Species Aristides Moustakas, Stelios Katsanevakis, 2018-05-03 Invasive alien species are non indigenous taxa introduced to areas beyond their natural distribution and bio geographical barriers by human activity with important impacts on biodiversity human health and ecosystem services With the human population being higher than ever before and increasing together with unprecedented rates of mobility of

humans and goods the introduction of new invasive species is more common than ever and is at the forefront of research in many disciplines such as ecology epidemiology and food security The mechanisms of successful introduction establishment and spread of invasive alien species are highly complex as biological social geographic economic and climatic factors influence the way an invasive species is introduced and determine the options available for its eventual detection and control With the rapid development of smart sensors social networks digital maps and remotely sensed imagery spatio temporal data are more ubiquitous and richer than ever before The availability of such large datasets Big data poses great challenges in data analysis In addition increased availability of computing power facilitates the use of computationally intensive methods for the analysis of such data Thus new methods are needed to efficiently study and understand biological invasions A Research Topic held in Frontiers Environmental Informatics aimed to address this topic Methods are defined in the widest terms and may be analytical practical or conceptual Among others a key aim of the thematic was to maximize the use of the proposed methods techniques by the scientific community and environmental stakeholders **Review**,1999

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