

Cambridge Maths Textbooks

Mathematics for Machine Learning Marc Peter Deisenroth, A. Aldo Faisal, Cheng Soon Ong. 2020-04-23 The fundamental mathematical tools needed to understand machine learning include linear algebra, analytic geometry, matrix decompositions, vector calculus, optimization, probability and statistics. These topics are traditionally taught in disparate courses, making it hard for data science or computer science students, or professionals, to efficiently learn the mathematics. This self-contained textbook bridges the gap between mathematical and machine learning texts, introducing the mathematical concepts with a minimum of prerequisites. It uses these concepts to derive four central machine learning methods: linear regression, principal component analysis, Gaussian mixture models and support vector machines. For students and others with a mathematical background, these derivations provide a starting point to machine learning texts. For those learning the mathematics for the first time, the methods help build intuition and practical experience with applying mathematical concepts. Every chapter includes worked examples and exercises to test understanding. Programming tutorials are offered on the book's web site.

Cambridge IGCSE® Mathematics Extended Problem Solving Book Karen Morrison, Nick Hamshaw, Tabitha Steel, Coral Thomas, Mark Dawes, Steven Watson. 2017-03-23 Revised edition of the IGCSE Mathematics Core and Extended Coursebook for the 0580 syllabus for examination from 2015. The Cambridge IGCSE® Mathematics Extended Problem-solving Book delivers a range of problems with fully worked solutions that develop students' mathematical thought. The resource gives students the opportunity to practise the range of mathematics skills covered in the Cambridge IGCSE Mathematics (0580) syllabus. The questions in the book encourage students to think widely about how to apply their knowledge to a broad range of tasks and problems. These help develop mathematical logic and key skills, such as reasoning, interpreting, estimating and communicating mathematically.

Cambridge Primary Mathematics Stage 5 Learner's Book Emma Low. 2014-05-22 This series is endorsed by Cambridge International Examinations and is part of Cambridge Maths. Children will enjoy learning mathematics with this fun and attractive learner's book for stage 5. A variety of questions, activities, investigations and games that are designed to reinforce the concepts learnt in the core activities in the teacher's guide and address misconceptions are included along with hints and tips. Clear, often pictorial, explanation of mathematical vocabulary will help children learn new terms whether they are native English speakers or second language speakers and great care has been made to ensure language is accessible.

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Cambridge IGCSE Mathematics Extended Practice Book Karen Morrison, Lucille Dunne. 2013-01-24 A series of titles written to cover the complete Cambridge IGCSE Mathematics (0580) syllabus and endorsed by Cambridge International Examinations. Cambridge IGCSE Mathematics Extended Practice Book offers a wealth of questions, with hints and tips along the way to reinforce skills and learning. It provides comprehensive and targeted exercises ensuring plenty of practice both for the classroom and for independent learning. With concise reminders at the start of each topic, and hints in the margin, it is designed to work as a stand alone practice tool that will successfully accompany any IGCSE mathematics textbook. Those using the Cambridge Coursebook will find this a complementary asset with extra questions. For additional exam practice, access to full exam-style papers is also available.

Teaching Probability Jenny Gage, David Spiegelhalter. 2016-08-04 These titles focus on the approaches that can be taken in the classroom to develop skills and a conceptual understanding of specific mathematical concepts.

Cambridge O Level Mathematics Coursebook Audrey Simpson. 2016-03-17 Cambridge O Level Mathematics is a resource to accompany the revised 4024 syllabus. This coursebook provides a complete course for developing and practising the skills required for the O Level Mathematics qualification. The content has been written to offer a range of tasks that support all aspects of the Cambridge O Level Mathematics syllabus (4024) giving students the confidence to use the mathematical techniques required to solve the range of maths problems required. With detailed explanations of concepts, worked examples and exercises, this coursebook can be used as a classroom text and for self-study.

Cambridge Primary Mathematics Stage 3 Games Book with CD-ROM Cherri Moseley, Janet Rees. 2014-06-12 This series is endorsed by Cambridge International Examinations and is part of Cambridge Maths. Learners will reinforce their mathematical understanding in an enjoyable way with the fun games in this stage 3 games book resource for teachers. Instructions for teachers or parents are provided and direct links to both the course objectives and activities in the teacher's guide are made, making this the perfect resource for additional class activity or homework. All photocopiable resources needed to play the games are included in the book and on the CD, so learners can start playing straight away. Projectable instructions for the learners are also included on the CD.

Cambridge Primary Mathematics Stage 1 Teacher's Resource with CD-ROM Cherri Moseley, Janet Rees. 2014-05-22 This series is endorsed by Cambridge International Examinations and is part of Cambridge Maths. This teacher's resource for stage 1 will fully support teachers to get the best from their learners and effectively use the learner's book and games book. Detailed lesson plans based on the course objectives are offered, along with additional activity ideas. Teachers will be guided to formatively assess their learners' understanding. They will have the confidence to engage the class in mathematical discussion and encourage learners to justify answers and make connections between ideas. Answers to the learner's book and all photocopiable sheets required are provided. All book content, plus more, is included on the CD for convenience.

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Exploring Mathematics John Meier, Derek Smith. 2017-08-07 With exercises and projects, Exploring Mathematics supports an active approach to the transition to upper-level theoretical math courses.

Cambridge International AS&A Level Mathematics Pure Mathematics 1 Sophie Goldie. 2018-02-23 Endorsed by Cambridge Assessment International Education to provide full support for Paper 1 of the syllabus for examination from 2020. Take mathematical understanding to the next level with this accessible series, written by experienced authors, examiners and teachers. - Improve confidence as a mathematician with clear explanations, worked examples, diverse activities and engaging discussion points. - Advance problem-solving, interpretation and communication skills through a wealth of questions that promote higher-order thinking. - Prepare for further study or life beyond the classroom by applying mathematics to other subjects and modelling real-world situations. - Reinforce learning with opportunities for digital practice via links to the

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Cambridge 2 Unit Mathematics Year 11 Enhanced Version William Pender, David Saddler, Julia Shea, Derek Ward. 2011-04 Features contain a large number of fully worked examples demonstrate mathematical processes and encourage independent learning.

Cambridge Primary Mathematics Stage 4 Teacher's Resource with CD-ROM Emma Low. 2014-05-22 This series is endorsed by Cambridge International Examinations and is part of Cambridge Maths. This teacher's resource for stage 4 will fully support teachers to get the best from their learners and effectively use the learner's book and games book. Detailed lesson plans based on the course objectives are offered, along with additional activity ideas. Teachers will be guided to formatively assess their learners' understanding. They will have the confidence to engage the class in mathematical discussion and encourage learners to justify answers and make connections between ideas. Answers to the learner's book and all photocopiable sheets required are provided. All book content, plus more, is included on the CD for convenience.

Cambridge Lower Secondary Complete Mathematics 7: Student Book (Second Edition) Deborah Barton. 2021-07-01 The Cambridge Lower Secondary Complete Mathematics 7 Student Book ensures students fully cover and excel in the curriculum, as well as embedding the learning they need to progress smoothly towards IGCSE® Mathematics. This resource provides a rigorous approach for teaching and studying Cambridge Lower Secondary Maths to ensure students learn everything that is required at that level. However, stretching materials and exercises also prepare students for a smooth transition to IGCSE Mathematics by supporting the development of required skills. It is written by the expert author of our previous, best-selling edition and maintains the strengths of the original book, but with updates and improvements to better meet students' and teachers' needs. The Student Book is supported by a Homework Book that provides opportunities for independent practice inside and outside the classroom, and a Teacher Handbook, which offers full teaching support.

New Cambridge Mathematics Sue Atkinson, Sharon Harrison, Laurie Rousham, Lynne McClure. 1996

Cambridge Primary Mathematics Stage 6 Learner's Book Emma Low. 2014-05-22 This series is endorsed by Cambridge International Examinations and is part of Cambridge Maths. Children will enjoy learning mathematics with this fun and attractive learner's book for stage 6. A variety of questions, activities, investigations and games that are designed to reinforce the concepts learnt in the core activities in the teacher's guide and address misconceptions are included along with hints and tips. Clear, often pictorial, explanation of mathematical vocabulary will help children learn new terms whether they are native English speakers or second language speakers and great care has been made to ensure language is accessible.

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Cambridge Pre-U Mathematics Coursebook Mark Hennings. 2017-06-29 Cambridge Pre-U Mathematics offers a comprehensive resource for students to develop the thinking skills and logic required of the Cambridge Pre-U Mathematics syllabus (9794). This Cambridge Pre-U Mathematics Coursebook provides a comprehensive resource to prepare students for the high level of mathematical knowledge expected for progression through the Pre-U syllabus. The chapters have been arranged to provide logical progression through the course, and includes clear explanation of concepts, detailed worked examples and focused exercises to help practice and consolidate skills.

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Cambridge O Level Mathematics Heather West, West Jeskins Matthews West Mike Handbury. 2016-04-29 Multiplying and dividing with negative numbers

Cambridge O Level Mathematics: Volume 1 Audrey Simpson. 2012-05-10 Endorsed by University of Cambridge International Examinations. Cambridge O Level Mathematics Volume 1 provides a two-year course leading to O Level examinations from University of Cambridge International Examinations in Mathematics. The book is designed to be worked through sequentially and can be used as a classroom textbook or for self-study.

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Exploring Mathematics John Meier, Derek Smith. 2017-08-07 Exploring Mathematics gives students experience with doing mathematics - interrogating mathematical claims, exploring definitions, forming conjectures, attempting proofs, and presenting results - and engages them with examples, exercises, and projects that pique their interest. Written with a minimal number of pre-requisites, this text can be used by college students in their first and second years of study, and by independent readers who want an accessible introduction to theoretical mathematics. Core topics include proof techniques, sets, functions, relations, and cardinality, with selected additional topics that provide many possibilities for further exploration. With a problem-based approach to investigating the material, students develop interesting examples and theorems through numerous exercises and projects. In-text exercises, with complete solutions or robust hints included in an appendix, help students explore and master the topics being presented. The end-of-chapter exercises and projects provide students with opportunities to confirm their understanding of core material, learn new concepts, and develop mathematical creativity.

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Cambridge IGCSE Maths Chris Pearce.2011-02 Ensure top marks and complete coverage with Collins' brand new IGCSE Maths course for the Cambridge International Examinations syllabus 0580. Provide rigour with thousands of tried and tested questions using international content and levels clearly labelled to aid transition from the Core to Extended curriculum. Endorsed by University of Cambridge International Examinations Ensure students are fully prepared for their exams with extensive differentiated practice exercises, detailed worked examples and IGCSE past paper questions. Stretch and challenge students with supplementary content for extended level examinations and extension level questions highlighted on the page. Emphasise the relevance of maths with features such as 'Why this chapter matters' which show its role in everyday life or historical development. Develop problem solving with questions that require students to apply their skills, often in real life, international contexts. Enable students to see what level they are working at and what they need to do to progress with Core and Extended levels signalled clearly throughout. Encourage students to check their work with answers to all exercise questions at the back (answers to examination sections are available in the accompanying Teacher s Pack).

Cambridge 4 Unit Mathematics Year 12 Denise Arnold,Graham Arnold.2000-09-28 Cambridge Mathematics 4 Unit Year 12 Digital includes: • A digital version (PDF) of the student textbook available to download by chapter from Cambridge GO www.cambridge.edu.au/GO Users require the latest version of Adobe reader to be able to view, note-take and bookmark pages.

Cambridge IGCSE Core Mathematics Practice Book Karen Morrison,Lucille Dunne.2012-09-06 A series of titles written to cover the complete Cambridge IGCSE Mathematics (0580) syllabus and endorsed by Cambridge International Examinations.

Cambridge O Level Mathematics: Volume 2 Audrey Simpson.2012-06-28 Endorsed by University of Cambridge International Examinations. Cambridge O Level Mathematics Volume 2 provides a two-year course leading to O Level examinations from University of Cambridge International Examinations in Mathematics. The book is designed to be worked through sequentially and can be used as a classroom textbook or for self-study.

A Short Course in Differential Topology Bjørn Ian Dundas.2018-06-28 This book offers a concise and modern introduction to differential topology, the study of smooth manifolds and their properties, at the advanced undergraduate/beginning graduate level. The treatment throughout is hands-on, including many concrete examples and exercises woven into the text with hints provided to guide the student.

Cambridge International AS and A Level Mathematics: Pure Mathematics 1 Coursebook Sue Pemberton.2018-03-15 This series has been developed specifically for the Cambridge International AS & A Level Mathematics (9709) syllabus to be examined from 2020. Cambridge International AS & A Level Mathematics: Pure Mathematics 1 matches the corresponding unit of the syllabus, with a clear and logical progression through. It contains materials on topics such as quadratics, functions, coordinate geometry, circular measure, series, differentiation and integration. This coursebook contains a variety of features including recap sections for students to check their prior knowledge, detailed explanations and worked examples, end-of-chapter and cross-topic review exercises and 'Explore' tasks to encourage deeper thinking around mathematical concepts. Answers to coursebook questions are at the back of the book.

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International Maths for Cambridge IGCSE Print and Online Student Book David Rayner,Jim Fensom.2017-03-09 An expert dual approach - with David Rayner injecting his well-known rigour and exact match to the Cambridge IGCSE(R) (0607) specification, plus IB Maths specialist Jim Fensom incorporating the enrichment and IB-focus needed for success in future IB study. The resource is fully up-to-date and matched to the latest Cambridge syllabus. It provides thorough exam support with a practice-based approach and plenty of worked examples to reinforce understanding. Free online access to resources focused on building assessment confidence, with revision help and a whole suite of past exam papers. This resource offers just the right amount of rigour for Cambridge IGCSE International Mathematics and is specially tailored for IB preparation, with integrated graphics calculator guidance providing invaluable support. A solid foundation which will sufficiently challenge students to hit the ground running in IB Maths.

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NEW Excellence in Mathematics Workbook JSS2 .2020-01-31 Aim for Excellence with Cambridge! The New Cambridge Excellence in Mathematics Junior Secondary brings you a first-class print and digital course for Mathematics. The material has been developed in accordance with the 2013 NERDC curriculum and follows a clear Scheme of Work. It offers students accessible, high-quality content aimed at developing logical reasoning. The Workbook offers: exercises that will consolidate the skills learnt in the Student's Book.

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Cambridge Mathematics Direct 6 Calculations Pupil's Book Jane Crowden,Sandy Cowling,Andrew King,Jeanette Mumford.2001-01-01 Cambridge Mathematics Direct is a major new programme offering a complete solution to the Daily Maths Lesson.

Cambridge Primary Mathematics Stage 1 Games Book with CD-ROM Cherri Moseley,Janet Rees.2014-05-22 This series is endorsed by Cambridge International Examinations and is part of Cambridge Maths. Learners will reinforce their mathematical understanding in an enjoyable way with the fun games in this stage 1 games book resource for teachers. Instructions for teachers or parents are provided and direct links to both the course objectives and activities in the teacher's guide are made, making this the perfect resource for additional class activity or homework. All photocopiable resources needed to play the games are included in the book and on the CD, so learners can start playing straight away. Projectable instructions for the learners are also included on the CD.

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their mathematical understanding in an enjoyable way with the fun games in this stage 5 games book resource for teachers. Instructions for teachers or parents are provided and direct links to both the course objectives and activities in the teacher's guide are made, making this the perfect resource for additional class activity or homework. All photocopiable resources needed to play the games are included in the book and on the CD, so learners can start playing straight away. Projectable instructions for the learners are also included on the CD.

Cambridge IGCSE™ Maths Student's Book (Collins Cambridge IGCSE™) Chris Pearce.2021-06-07 Collins Cambridge IGCSE® Maths Student's Book - Third Edition provides in-depth coverage of every aspect of the latest Cambridge IGCSE and IGCSE (9-1) Mathematics (0580/0980) syllabuses, for examination from 2020. The resource covers the Core and Extended curriculum.

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