

Optimise B2 Students Book Pack

When you use Hibernate in your projects, you quickly recognize that you need to do more than just add @Entity annotations to your domain model classes. Real-world applications often require advanced mappings, complex queries, custom data types and caching. Hibernate can do all of that. You just have to know which annotations and APIs you need to use. Hibernate Tips - More than 70 solutions to

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common Hibernate problems shows you how to efficiently implement your persistence layer with Hibernate's basic and advanced features. Each Hibernate Tip consists of one or more code samples and an easy to follow step-by-step explanation. You can also download an example project with executable test cases for each Hibernate Tip. Throughout this book, you will get more than 70 ready-to-use solutions that show you how to: - Define standard mappings for basic attributes and entity

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associations. - Implement your own attribute mappings and support custom data types. - Use Hibernate's Java 8 support and other proprietary features. - Read data from the database with JPQL, Criteria API, and native SQL queries. - Call stored procedures and database functions. This book is for developers who are already working with Hibernate and who are looking for solutions for their current development tasks. It's not a book for beginners who are looking for extensive

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descriptions of Hibernate's general concepts. The tips are designed as self-contained recipes which provide a specific solution and can be accessed when needed. Most of them contain links to related tips which you can follow if you want to dive deeper into a topic or need a slightly different solution. There is no need to read the tips in a specific order. Feel free to read the book from cover to cover or to just pick the tips that help you in your current project.

Destination C1 & C2 :

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Grammar and Vocabulary is the ideal grammar and vocabulary practice book for all advanced students preparing to take any C1 & C2 level exam: e.g. Cambridge CAE and Cambridge CPE.

Answer set programming (ASP) is a programming methodology oriented towards combinatorial search problems. In such a problem, the goal is to find a solution among a large but finite number of possibilities. The idea of ASP came from research on artificial intelligence and

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computational logic. ASP is a form of declarative programming: an ASP program describes what is counted as a solution to the problem, but does not specify an algorithm for solving it. Search is performed by sophisticated software systems called answer set solvers. Combinatorial search problems often arise in science and technology, and ASP has found applications in diverse areas—in historical linguistic, in bioinformatics, in robotics, in space exploration, in oil

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and gas industry, and many others. The importance of this programming method was recognized by the Association for the Advancement of Artificial Intelligence in 2016, when AI Magazine published a special issue on answer set programming. The book introduces the reader to the theory and practice of ASP. It describes the input language of the answer set solver CLINGO, which was designed at the University of Potsdam in Germany and is used today by ASP programmers in many

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countries. It includes numerous examples of ASP programs and present the mathematical theory that ASP is based on. There are many exercises with complete solutions.

***Focus BrE 1 Student's Book
Mathematics for Machine
Learning***

Navigate Coursebook

***Distributed Optimization and
Statistical Learning Via the
Alternating Direction***

Method of Multipliers

McGraw-Hill's 10 ACT

***Practice Tests, Second
Edition***

Essentials of Metaheuristics

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(Second Edition)

Gateway is an academically-rich five-level course designed to lead teenage students to success in school-leaving and university entrance exams and prepare them for university and the world of work.

Dr. Georgia Young is feeling stuck and restless. When she decides to make some major changes in her life, including quitting her job as an optometrist, she finds

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herself on a journey that may or may not include another chance at love.

Wangari Maathai, founder of The Green Belt Movement, tells its story including the philosophy behind it, its challenges, and objectives.

OPTIMISE B2 DIGITAL
STUDENT'S BOOK PREMIUM
PACK.

Essential Tools for
Working with Data
Gateway B2+ Student Book
Teacher's Guide 2

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GATEWAY 2ND EDITION A1+ WORKBOOK.

Surveys the theory and history of the alternating direction method of multipliers, and discusses its applications to a wide variety of statistical and machine learning problems of recent interest, including the lasso, sparse logistic regression, basis pursuit, covariance selection, support vector machines, and many others.

Interested in the

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Genetic Algorithm?
Simulated Annealing? Ant
Colony Optimization?
Essentials of
Metaheuristics covers
these and other
metaheuristics
algorithms, and is
intended for
undergraduate students,
programmers, and non-
experts. The book covers
a wide range of
algorithms,
representations,
selection and
modification operators,
and related topics, and
includes 71 figures and

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135 algorithms great and small. Algorithms include: Gradient Ascent techniques, Hill-Climbing variants, Simulated Annealing, Tabu Search variants, Iterated Local Search, Evolution Strategies, the Genetic Algorithm, the Steady-State Genetic Algorithm, Differential Evolution, Particle Swarm Optimization, Genetic Programming variants, One- and Two-Population Competitive Coevolution, N-Population Cooperative

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Coevolution, Implicit Fitness Sharing, Deterministic Crowding, NSGA-II, SPEA2, GRASP, Ant Colony Optimization variants, Guided Local Search, LEM, PBIL, UMDA, cGA, BOA, SAMUEL, ZCS, XCS, and XCSF.

There are 60 core lessons for Levels A and B, which can be boosted by an extra 30 lessons in the Work Book. The Class Book contains a Starter Unit and six units with core teaching materials and two festival and holiday

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units. There are 6 pages of mini flashcards (smaller versions of the flashcards) along with pop outs. Great home-school links with the Class Book 1. Class Book activity pages are perforated - so children can take them home 2. In every unit the children make a pop-out based on the story that they can take home to tell the story there. The Class Book contains EIGHT activities per unit: 1. Two consolidation activities - following

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the story 2. Two vocabulary activities - to practise the vocabulary song 3. Cross-curricular/DVD activity - to consolidate the theme 4. Own life activity - to personalise the topic to the child's life 5. Key language activity - to bring together all of the language learnt in the unit 6. Song activity - using the pop outs

English World 2

The Green Belt Movement

OPTIMISE B2 STUDENT BOOK

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PREMIUM PACK FOR ENGLISH
CONNECTION.

Playtime: A: Class Book
Sharing the Approach and
the Experience

Gateway B1 Student Book
Composed of 8 units with
each unit designed to be
covered over a month of
classes, this title
includes lessons that
consist of vocabulary,
grammar, Storysong, story
comprehension and literacy
work, language practice,
content-based learning,
action songs and reviews.
It also features story
board cut-outs which
provide an interactive

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approach.

An exciting and intensive skills-based course, which focuses on themes from contemporary teen culture. Activate! engages students and offers highly enjoyable and thorough exam preparation. Key Features Motivating DVD clips taken from authentic TV programmes Teenage 'exam coach' characters support students with the Skillzone and Examzone boxes Extensive exam practice in the Workbook and the Use of English book, and on the Workbook CD-ROM Preparation for

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multiple exams using the materials in the Teacher's book and Teacher's Exam box Interactive exam practice at iTests.com and in CD-ROM allows students to test themselves, monitor their progress and improve exam performance. Activate! B2 is ideal for students who are preparing for international exams at B2 level. Activate! B2 provides a complete teaching package Students' book with DVD Class audio CDs (set of 2) Workbook with CD-ROM (with key and without key editions) Use of English book Teacher's

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exam box Teacher's book
Activate! Digital Active Book (students' digital component with video)
Active Teach (teacher's digital component with video)

The features of this volume include: a systematic approach to word formation; a focus on grammar, providing essential FC grammar practice; a list of collocations and patterns; and a phrasal verb reference section with definitions from the Macmillan English Dictionary for Advanced

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Learners.

English Unlimited B2 -
Upper-Intermediate.

Teacher's Pack with DVD-
ROM

Optimise B2 (Upper
Intermediate) Teacher's
Book Premium Pack

B2. 3, teacher's book
Workbook

Gateway A2 Student Book
Python Data Science
Handbook

For many researchers,
Python is a first-class
tool mainly because of its
libraries for storing,
manipulating, and gaining
insight from data. Several
resources exist for

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individual pieces of this data science stack, but only with the Python Data Science Handbook do you get them all—IPython, NumPy, Pandas, Matplotlib, Scikit-Learn, and other related tools. Working scientists and data crunchers familiar with reading and writing Python code will find this comprehensive desk reference ideal for tackling day-to-day issues: manipulating, transforming, and cleaning data; visualizing different types of data; and using data to build

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statistical or machine learning models. Quite simply, this is the must-have reference for scientific computing in Python. With this handbook, you'll learn how to use: IPython and Jupyter: provide computational environments for data scientists using Python NumPy: includes the ndarray for efficient storage and manipulation of dense data arrays in Python Pandas: features the DataFrame for efficient storage and manipulation of labeled/columnar data in

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Python Matplotlib:
includes capabilities for
a flexible range of data
visualizations in Python
Scikit-Learn: for
efficient and clean Python
implementations of the
most important and
established machine
learning algorithms
Optimise B2 Student's Book
Pack

Information-rich topics
and texts immerse adult
learners in themes and
issues from around the
world so that English is
more relevant.

Bebop Level 1 Student's
Book Pack

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Gateway B2 Student Book
Straight to Advanced
Student's Book Without
Answers Premium
Grammar & Vocabulary
Mining of Massive Datasets
Excel 2013: The Missing
Manual

An exciting and intensive skills
based course which focuses on
themes from contemporary teen
culture

No other description available.
We want to give you the practice
you need on the ACT McGraw-
Hill's 10 ACT Practice Tests
helps you gauge what the test
measures, how it's structured,
and how to budget your time in

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each section. Written by the founder and faculty of Advantage Education, one of America's most respected providers of school-based test-prep classes, this book provides you with the intensive ACT practice that will help your scores improve from each test to the next. You'll be able to sharpen your skills, boost your confidence, reduce your stress-and to do your very best on test day. 10 complete sample ACT exams, with full explanations for every answer 10 sample writing prompts for the optional ACT essay portion Scoring Worksheets to help you calculate your total score for

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every test Expert guidance in
prepping students for the ACT
More practice and extra help
online ACT is a registered
trademark of ACT, Inc., which
was not involved in the
production of, and does not
endorse, this product.

Gateway B1

Stories, DVD and play- start to
learn real-life English the
Playtime way!

B1

Answer Set Programming
Activate!.

Performer Shaping Ideas. Idee
Per Imparare. Per Le Scuole
Superiori

A comprehensive introduction

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to the tools, techniques and applications of convex optimization.

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

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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

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tutorials are offered on the book's web site.

Helps students prepare and practise for their school-leaving exams and equips them with lifelong learning and study skills. Taking an inductive approach to Grammar, this title revises and extends the students' knowledge of grammar and vocabulary through varied skills-based activities that recycle, revise, evaluate and develop language skills.

A Novel

Gateway 2nd Edition - Build Up to B1

Laser A2 : [new level]. Class audio CD : includes material for KET

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Hibernate Tips

With Video and Oxford Online Skills. B2 upper-intermediate Academy Stars Level 2 Pupil's Book Pack

Destination B1: Grammar and Vocabulary has been designed for intermediate students at B1

(Threshold) level on the Council of Europe's Common European Framework Scale. It is the ideal grammar and vocabulary practice booksfor all students preparing to take ang B1 level exam: e.g.

Cambridge PET and for students working towards B2 level exams in the future.

Gateway is an academically rich, multi-level general English course designed to lead teenage students

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to success in school-leaving/university entrance examinations, and prepare them for university and the world of work. Now in its second edition, this book focuses on practical algorithms for mining data from even the largest datasets.

Use of English

Convex Optimization

Skillful Listening & Speaking

I Almost Forgot about You

Activate! B2 Use of English

Destination C1 & C2

The world's most popular spreadsheet program is now more powerful than ever, but it's also more complex. That's where this Missing Manual comes in.

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With crystal-clear explanations and hands-on examples, *Excel 2013: The Missing Manual* shows you how to master Excel so you can easily track, analyze, and chart your data. You'll be using new features like PowerPivot and Flash Fill in no time. The important stuff you need to know: Go from novice to ace. Learn how to analyze your data, from writing your first formula to charting your results. Illustrate trends. Discover the clearest way to present your data using Excel's new Quick Analysis

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feature. Broaden your analysis. Use pivot tables, slicers, and timelines to examine your data from different perspectives. Import data. Pull data from a variety of sources, including website data feeds and corporate databases. Work from the Web. Launch and manage your workbooks on the road, using the new Excel Web App. Share your worksheets. Store Excel files on SkyDrive and collaborate with colleagues on Facebook, Twitter, and LinkedIn. Master the new data model.

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Use PowerPivot to work with millions of rows of data. Make calculations. Review financial data, use math and scientific formulas, and perform statistical analyses. Focus is a rich, varied, carefully levelled course for upper secondary students. Specially designed to motivate older teens, it helps them to track their level and achieve the exam results they need. With its unique blended learning package, Focus is the flexible course that gets results. Gateway is an academically

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rich five-level course
designed to lead teenage
students to success in
school-leaving and
university entrance exams
and prepare them for
university and the world
of work.

More than 70 solutions to
common Hibernate problems
CODE GREEN B1+ Sts
Optimise B2 Student's Book
Pack
Destination B1