Biology Revision Guide By Ianj Burton

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IGCSE Biology 3rd EditionComplete Biology

Cambridge IGCSE® Chemistry Revision Guide

This is a thorough study of photosynthetic mechanisms from cells to leaves, crown, and canopy. The authors question whether photosynthetic adaptations take place primarily at the metabolic and biochemical level or through changes in structure and form, or both. The text goes on to analyze the relative importance of genes that control metabolic and light reactions, and the structure, arrangement, and orientation of photosynthesis.

Deep Learning

Biodiversity observation systems are almost everywhere inadequate to meet local, national and international (treaty) obligations. As a result of alarmingly rapid declines in biodiversity in the modern era, there is a strong, worldwide desire to upgrade our monitoring systems, but little clarity on what is actually needed and how it can be assembled from the elements which are already present. This book intends to provide practical guidance to broadly-defined biodiversity observation networks at all scales, but predominantly the national scale and higher. This is a practical how-to book with substantial policy relevance. It will mostly be used by

technical specialists with a responsibility for biodiversity monitoring to establish and refine their systems. It is written at a technical level, but one that is not discipline-bound: it should be intelligible to anyone in the broad field with a tertiary education.

The Cambridge Revision Guide: GCE O Level Biology

This handbook is currently in development, with individual articles publishing online in advance of print publication. At this time, we cannot add information about unpublished articles in this handbook, however the table of contents will continue to grow as additional articles pass through the review process and are added to the site. Please note that the online publication date for this handbook is the date that the first article in the title was published online. For more information, please read the site FAQs.

Threatened Swallowtail Butterflies of the World

The significantly expanded and updated new edition of a widely used text on reinforcement learning, one of the most active research areas in artificial intelligence. Reinforcement learning, one of the most active research areas in artificial intelligence, is a computational approach to learning whereby an agent

tries to maximize the total amount of reward it receives while interacting with a complex, uncertain environment. In Reinforcement Learning, Richard Sutton and Andrew Barto provide a clear and simple account of the field's key ideas and algorithms. This second edition has been significantly expanded and updated, presenting new topics and updating coverage of other topics. Like the first edition, this second edition focuses on core online learning algorithms, with the more mathematical material set off in shaded boxes. Part I covers as much of reinforcement learning as possible without going beyond the tabular case for which exact solutions can be found. Many algorithms presented in this part are new to the second edition, including UCB, Expected Sarsa, and Double Learning. Part II extends these ideas to function approximation, with new sections on such topics as artificial neural networks and the Fourier basis, and offers expanded treatment of off-policy learning and policy-gradient methods. Part III has new chapters on reinforcement learning's relationships to psychology and neuroscience, as well as an updated case-studies chapter including AlphaGo and AlphaGo Zero, Atari game playing, and IBM Watson's wagering strategy. The final chapter discusses the future societal impacts of reinforcement learning.

Photosynthetic Adaptation

Groundbreaking and comprehensive, Driven to Distraction has been a lifeline to the approximately eighteen million Americans who are thought to have ADHD. Now

the bestselling book is revised and updated with current medical information for a new generation searching for answers. Through vivid stories and case histories of patients—both adults and children—Hallowell and Ratey explore the varied forms ADHD takes, from hyperactivity to daydreaming. They dispel common myths, offer helpful coping tools, and give a thorough accounting of all treatment options as well as tips for dealing with a diagnosed child, partner, or family member. But most importantly, they focus on the positives that can come with this "disorder"—including high energy, intuitiveness, creativity, and enthusiasm.

Cambridge O Level Biology Revision Guide

Longlisted for the National Book Award in Fiction • A Finalist for the PEN/Faulkner Award for Fiction • A Finalist for the Los Angeles Times Book Prize for Fiction • A Finalist for the James Taite Black Prize for Fiction • A Finalist the Center for Fiction First Novel Prize • A Finalist for the Green Carnation Prize • A New York Times Book Review Editors' Choice • A Los Angeles Times Bestseller Named One of the Best Books of the Year by More Than Fifty Publications, Including: The New Yorker, The Paris Review, The New York Times (selected by Dwight Garner), GQ, The Washington Post, Esquire, NPR, Slate, Vulture, the San Francisco Chronicle, The Guardian (London), The Telegraph (London), The Evening Standard (London), The Philadelphia Inquirer, The Miami Herald, The Millions, BuzzFeed, The New Republic (Best Debuts of the Year), Kirkus Reviews, and Publishers Weekly (One of the Ten

Best Books of the Year) "Garth Greenwell's What Belongs to You appeared in early 2016, and is a short first novel by a young writer; still, it was not easily surpassed by anything that appeared later in the year.It is not just first novelists who will be envious of Greenwell's achievement."—James Wood, The New Yorker On an unseasonably warm autumn day, an American teacher enters a public bathroom beneath Sofia's National Palace of Culture. There he meets Mitko, a charismatic young hustler, and pays him for sex. He returns to Mitko again and again over the next few months, drawn by hunger and loneliness and risk, and finds himself ensnared in a relationship in which lust leads to mutual predation, and tenderness can transform into violence. As he struggles to reconcile his longing with the anguish it creates, he's forced to grapple with his own fraught history, the world of his southern childhood where to be queer was to be a pariah. There are unnerving similarities between his past and the foreign country he finds himself in, a country whose geography and griefs he discovers as he learns more of Mitko's own narrative, his private history of illness, exploitation, and want. What Belongs to You is a stunning debut novel of desire and its consequences. With lyric intensity and startling eroticism, Garth Greenwell has created an indelible story about the ways in which our pasts and cultures, our scars and shames can shape who we are and determine how we love. A conversation between Garth Greenwell and Hanya Yanagihara is included inside the e-book edition.

India's Railway History

Why we need to stop wasting public funds on education Despite being immensely popular—and immensely lucrative—education is grossly overrated. Now with a new afterword by Bryan Caplan, this explosive book argues that the primary function of education is not to enhance students' skills but to signal the qualities of a good employee. Learn why students hunt for easy As only to forget most of what they learn after the final exam, why decades of growing access to education have not resulted in better jobs for average workers, how employers reward workers for costly schooling they rarely ever use, and why cutting education spending is the best remedy. Romantic notions about education being "good for the soul" must yield to careful research and common sense—The Case against Education points the way.

Intelligence: A Very Short Introduction

This title covers the entire syllabus for Cambridge International Examinations' International AS and A Level Biology (9700). It is divided into separate sections for AS and A Level making it ideal for students studying both the AS and the A Level and also those taking the AS examinations at the end of their first year. - Explains difficult concepts using language that is appropriate for students around the world - Provides practice throughout the course with carefully selected past paper questions at the end of each chapter We are working with Cambridge International

Examinations to gain endorsement for this title.

Cambridge IGCSE® Combined and Co-ordinated Sciences Biology Workbook

A concise revision guide for IGCSE Physics written by an experienced teacher. Suitable for students of all ability levels, it provides not only revision material but practice with practical experiments and a bank of exercises. It contains vocabulary-based exercises to support EAL students.

Complete Biology for Cambridge IGCSE® Workbook

The only endorsed resource of its kind - specifically for English as a Second Language students. This write-in book ensures students get plenty of practice with the summary and note-taking aspects of Cambridge IGCSE English as a Second Language. With revised content, students can choose sections to practise, building confidence ready for the revised exam from 2019, which has a heavier weighting on summary writing. This edition does not contain answers at the back of the book so teachers can use it for classroom assessment. This book is also suitable for anyone wanting to develop academic English for university and beyond, including first language students.

Cambridge IGCSE Chemistry Study and Revision Guide

A New York Times Notable Book of 2020 Named one of the best books of 2020 by The New Yorker; BBC; NPR; Time ("100 Must-read Books"); Kirkus; and The Washington Post ("50 Notable Works of Fiction") In the highly anticipated follow-up to his beloved debut, What Belongs to You, Garth Greenwell deepens his exploration of foreignness, obligation, and desire Sofia, Bulgaria, a landlocked city in southern Europe, stirs with hope and impending upheaval. Soviet buildings crumble, wind scatters sand from the far south, and political protesters flood the streets with song. In this atmosphere of disquiet, an American teacher navigates a life transformed by the discovery and loss of love. As he prepares to leave the place he's come to call home, he grapples with the intimate encounters that have marked his years abroad, each bearing uncanny reminders of his past. A queer student's confession recalls his own first love, a stranger's seduction devolves into paternal sadism, and a romance with another foreigner opens, and heals, old wounds. Each echo reveals startling insights about what it means to seek connection: with those we love, with the places we inhabit, and with our own fugitive selves. Cleanness revisits and expands the world of Garth Greenwell's beloved debut, What Belongs to You, declared "an instant classic" by The New York Times Book Review. In exacting, elegant prose, he transcribes the strange dialects of desire, cementing his stature as one of our most vital living writers.

Information Theory, Inference and Learning Algorithms

'The case studies are particularly informative and well balanced. This book is extremely attractively priced and should find a place on the shelves of many libraries and individuals who have an interest/concern in their attempts to evaluate the many and growing environmental problems facing our planet in the 21st century.' -International Journal of Environmental Studies'Very interesting multi-author truly international book very well referenced good index.' -International Journal of Environmental StudiesThis is a comprehensive and up-to-date treatment of the Contingent Valuation Method (CVM), which asks what people would be willing to pay for an environmental good or attribute, or willing to accept for its loss. CVM is currently central to the assessment of environmental damage and has been the subject of considerable debate. Aimed at specialists, the book contains specially commissioned papers from both sides of that debate, as well as from commentators who see it as an interesting experimental tool regardless of the question of absolute validity of estimates. The book embraces the theoretical, methodological, empirical, and institutional aspects of the current debate, and looks at the method in US, European, and developing country contexts.

Teaching Science for Understanding

An ex-hacker, a sexy college professor, stolen top secret hardware, a cover-up, a kidnapping, a government conspiracy, hacked defense computers, FBI, CIA, NSA, Armageddon. An excerpt from the actual deposition transcripts: "Let the record reflect that this deposition commenced at 9:15 am on December the 3rd, 2004 at the FBI offices in Atlanta, Georgia. Present for this recording are Special Agent Alvin Dirk, the Honorable Judge Ramiro Vasquez, and the witness, Robert O. Blain. This deposition is merely a recording of the events which transpired at Norwood University and is not now nor ever will be part of any trial or prosecution. Go ahead." "My name is Bobby Blain. Most people seem to think it all started when Dr. Jennings hired me, and all the computers started getting hacked. It was easy for people to think that, because I have a history and got myself in some trouble when I was younger. I hacked some computers and almost got the president impeached, but it really started before that, when I still worked for Dr. Karlyn." "Dr. Karlyn gave me a chance to redeem myself by allowing me to work on his computer for him. Then one day, this scientist I had never seen before comes and gives Dr. Karlyn a device. I was never told what he wanted, but I think he wanted Dr. Karlyn to help him reverse engineer it. I was only asked to build an interface to attach it to the computer. Dr. Karlyn did the rest. I think he figured out how to turn it on, but when he did, strange things started to happen." "We didn't know it then, but it turns out the device was stolen from a government facility. I don't know where they got it, that is more classified than this deposition. I can tell you with absolute certainty that they didn't make it themselves. I'd like to tell you more, but I don't think I'm

allowed." "Anyway, someone at the university needed to get Dr. Karlyn out of the way and falsely accused him of inappropriate conduct with a student. He could have fought it, the dean believed him, but he decides to leave the school anyway. Before he goes, he gives his computer to Professor Jennings and he gives me a letter of recommendation, so after I help deliver and setup the computer, she agrees to hire me." "The first night it is up and running, at least two attempts are made to hack into the computer. I forgot to mention that even before I deliver the computer, this guy tries to break in and steal something from it, but I was there and he didn't get anything." "I can't divulge any secrets about Professor Jennings' project here, but my part is to prove that her process would work if she were given enough computer resources, so I re-write her process to work across a network and run on thousands of computers." "That's when things got really crazy. Someone keeps trying to hack into our computer; someone hacks the entire school and the phone company. Professor Jennings' secretary is kidnapped. The FBI gets involved, but they're chasing the wrong people for reasons only they can tell you." "Then someone plants a virus on our computer and the next thing we know, it's spread all over the internet, including some very sensitive government computers. Meanwhile, our project continues to gain speed and surpass anyone's expectations." "When the FBI come in and learn that the device that was given to Dr. Karlyn is actually some super cool futuristic computer that is able to grow and build more circuits for itself, they want to disconnect the computer and confiscate it." "That's when computers all over the world go out of control. The pentagon and

all the armed forces are helpless. Air traffic is grounded. All the computer problems are traced back to the professor's computer. The FBI want it dismantled more than ever, but the academics involved want to get the device to relinquish control over the world before they do." "And, well, I guess that's all I'm allowed to say, thank you."

The Cambridge Biology Revision Guide South Asia Edition

Valuing Environmental Preferences

Teaching Science for Understanding

Cambridge IGCSE Biology Workbook

This is a fundamental revision tool for students of the Cambridge O Level Biology (5090) exam. Through a topic-by-topic structure, the book explains essential biological concepts using accessible language and clear illustrations. Students are encouraged to apply their knowledge through practical investigations and extensive structured and multiple-choice questions.

Cambridge International AS and A Level Biology

People value their powers of thinking and most of us are interested in why some people seem to drive a highly tuned Rolls Royce brain while others potter along with a merely serviceable Ford Fiesta. This Very Short Introduction describes what psychologists have discovered about how and why people differ in their thinking powers. The book takes readers from no knowledge about the science of human intelligence to a stage where they are able to make judgements for themselves about some of the key questions about human mental ability differences. Each chapter deals with a central issue that is both scientifically lively and of considerable general interest, and is structured around a diagram which is explained in the course of the chapter. The issues discussed include whether there are several different types of intelligence, whether intelligence differences are caused by genes or the environment, the biological basis of intelligence differences, and whether intelligence declines or increases as we grow older. ABOUT THE SERIES: The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area. These pocket-sized books are the perfect way to get ahead in a new subject quickly. Our expert authors combine facts, analysis, perspective, new ideas, and enthusiasm to make interesting and challenging topics highly readable.

Cambridge IGCSE Biology Study and Revision Guide

Cambridge Biology IGCSE® Revision Guide

Do you download music or shop online? Who regulates large companies such as Google and Facebook? How safe is your personal data on the internet? Information technology affects all aspects of modern life. From the information shared on websites such as Facebook, Twitter, and Instagram to online shopping and mobile devices, it is rare that a person is not touched by some form of IT every day. Information Technology Law examines the legal dimensions of these everyday interactions with technology and the impact on privacy and data protection, as well as their relationship to other areas of substantive law, including intellectual property and criminal proceedings. Since the pioneering publication of the first edition over twenty years ago, this forward-thinking text has established itself as the most readable and comprehensive textbook on the subject, covering the key topics in this dynamic and fast-moving field in a clear and engaging style. Focussing primarily on developments within the UK and EU, this book provides a broad-ranging introduction and analysis of the increasingly complex relationship between the law and IT. Information Technology Law is essential reading for students of IT law and also appropriate for business and management students, as

well as IT and legal professionals. Online Resource Centre The Online Resource Centre hosts a catalogue of web links to key readings, updates to the law since publication, as well as linking to the author's own IT law blog.

Cladistics

What Belongs to You

Systematics underpins all of biology. Cladistics is a method of systematic classification that aims to reconstruct genealogies based on common ancestry, thus revealing the phylogenetic relationships between taxa. Its applications vary from linguistic analysis to the study of conservation and biodiversity, and it has become a method of choice for comparative studies in all fields of biology. For all students interested in the systematic relationships among organisms, this book provides an integrated, state-of-the-art account of the techniques and methods of modern cladistics, and how to put them into practice.

The Oxford Handbook of the Archaeology and Anthropology of Rock Art

An introduction to a broad range of topics in deep learning, covering mathematical and conceptual background, deep learning techniques used in industry, and research perspectives. "Written by three experts in the field, Deep Learning is the only comprehensive book on the subject." —Elon Musk, cochair of OpenAI; cofounder and CEO of Tesla and SpaceX Deep learning is a form of machine learning that enables computers to learn from experience and understand the world in terms of a hierarchy of concepts. Because the computer gathers knowledge from experience, there is no need for a human computer operator to formally specify all the knowledge that the computer needs. The hierarchy of concepts allows the computer to learn complicated concepts by building them out of simpler ones; a graph of these hierarchies would be many layers deep. This book introduces a broad range of topics in deep learning. The text offers mathematical and conceptual background, covering relevant concepts in linear algebra, probability theory and information theory, numerical computation, and machine learning. It describes deep learning techniques used by practitioners in industry, including deep feedforward networks, regularization, optimization algorithms, convolutional networks, sequence modeling, and practical methodology; and it surveys such applications as natural language processing, speech recognition, computer vision, online recommendation systems, bioinformatics, and videogames. Finally, the book offers research perspectives, covering such theoretical topics as linear factor models, autoencoders, representation learning, structured probabilistic models, Monte Carlo methods, the

partition function, approximate inference, and deep generative models. Deep Learning can be used by undergraduate or graduate students planning careers in either industry or research, and by software engineers who want to begin using deep learning in their products or platforms. A website offers supplementary material for both readers and instructors.

Cambridge IGCSE® Biology Revision Guide

This Workbook is intended to be used alongside the Cambridge IGCSE Biology Second edition Coursebook, and is fully endorsed by Cambridge. It contains exercises that will help students to develop the skills needed to succeed in the Cambridge IGCSE Biology examination and invites students to match their performance in some tasks against generic criteria, to help them to see what they need to do to improve. A Teacher's Resource CD-ROM is also available.

Cleanness

The Cambridge IGCSE Chemistry Revision Guide supports students through their course, containing specifically designed features to help students apply their knowledge as they prepare for assessment.

Constable & Lim Colour Atlas Of Ophthalmology (Sixth Edition)

The bestselling title, developed by International experts - now updated to offer comprehensive coverage of the core and extended topics in the latest syllabus. - Covers the core and supplement sections of the updated syllabus - Supported by the most comprehensive range of additional material, including Teacher Resources, Laboratory Books, Practice Books and Revision Guides - Written by renowned, expert authors with vast experience of teaching and examining international qualifications We are working with Cambridge International Examinations to gain endorsement.

The Case against Education

This new Teacher's Resource Pack offers expert support directly aligned to the Cambridge IGCSE Biology syllabus. Including worksheets and ideas for practicals, fully customisable material and PowerPoint presentations are available on CD. Fully endorsed by Cambridge International Examinations.

Developing Summary and Note-taking Skills without answers

The essential explanation and advice students need to achieve in their exams from

a top Cambridge educator. - Specifies the skills and knowledge that students need to acquire during the course - Highlights common misconceptions and errors - Tests knowledge with practice questions and answers at the back of the book This title has not been through the Cambridge endorsement process.

Reinforcement Learning

The Cambridge IGCSE® Combined and Co-ordinated Sciences series is tailored to the 0653 and 0654 syllabuses for first examination in 2019, and all components of the series are endorsed by Cambridge International Examinations. This Biology Workbook is tailored to the Cambridge IGCSE® Combined Science 0653 and Co-ordinated Sciences 0654 syllabuses for first examination in 2019 and is endorsed for learner support by Cambridge International Examinations. Covering both the Core and the Supplement material, this workbook contains exercises arranged in the same order as the coursebook and are clearly marked according to the syllabus they cover. Developing students' scientific skills, these exercises are complemented by self-assessment checklists to help them evaluate their work as they go. Answers are provided at the back of the book.

The GEO Handbook on Biodiversity Observation Networks

Ron Pickering is a highly experienced teacher with many years' experience of maintaining students' interest in biology. Known for his informative, motivating style and straightforward explanations he maintains the same high level of interest and accessibility in this new book. The content of Complete Biology has been drawn from an analysis of all syllabuses with added material to ensure a match for IGCSE. The content is sufficient to stretch your students aiming for the top grades without sacrificing ease of understanding. · Double-page spreads increase accessibility · Questions on every spread for students to check their understanding, and learning objectives at the beginning to quickly identify relevant pages · Plenty of examination style questions set at two levels · Provides an excellent foundation for students wishing to progress to A-Level Biology · Allows students to appreciate the everyday importance of Biology

Information Technology Law

This handbook provides an indispensable reference guide to most aspects of the history of India's railways. The secondary literature is surveyed, primary sources identified, statistical and cartographic data discussed, and a massive bibliography made available.

Driven to Distraction (Revised)

Providing guidance that helps students practice and troubleshoot their exam technique, these books send them into their exam with the confidence to aim for the best grades. - Enables students to avoid common misconceptions and mistakes by highlighting them throughout - Builds students' skills constructing and writing answers as they progress through a range of practice questions - Allows students to mark their own responses and easily identify areas for improvement using the answers in the back of the book - Helps students target their revision and focus on important concepts and skills with key objectives at the beginning of every chapter - Ensures that students maximise their time in the exam by including examiner's tops and suggestions on how to approach the questions This title has not been through the Cambridge International Examinations endorsement process.

Human Intelligence

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Cambridge Physics IGCSE® Revision Guide

The Mother of All Viruses

Strengthen exam potential. Directly supporting the bestselling Complete Science for Cambridge IGCSE series, this new Workbook equips students with the essential practice central to performance in exams. Matched to the latest syllabus, stretching activities fully develop all the key exam skills, preparing students to achieve.

Cambridge IGCSE® Biology Revision Guide

A concise revision guide for IGCSE Biology written by an experienced teacher and the author of the popular Complete Biology for IGCSE. Suitable for students of all ability levels, it provides not only revision material but a huge bank of practice questions. It contains vocabulary-based exercises to support EAL students.

Complete Biology for Cambridge IGCSE®: Teacher's Resource Pack

Exam Board: Cambridge Level: IGCSE Subject: Biology First teaching: September 2015; First exams: June 2017 Suitable for the 2020 exams Letts Cambridge IGCSE® Biology Revision Guide provides clear and accessible revision content to support all students, with practice opportunities to build your confidence and help you prepare for the Cambridge IGCSE® Biology assessments. Covering the latest

Cambridge IGCSE® Biology syllabus, this revision guide includes: * Clear and concise syllabus coverage, with the extended material clearly differentiated * Topics in short, user-friendly sections to help you plan your revision in manageable chunks * Revision tips to provide essential assessment guidance * Quick tests and exam-style practice questions for every topic, so you can check your progress and develop your exam skills * A supporting glossary with easy-to-understand definitions of key terms ms

The Cambridge Revision Guide: GCE O Level Biology Asian Reprint Edition

In the 6th edition of this Colour Atlas of Ophthalmology, all the chapters have been comprehensively updated to incorporate the latest advances in the understanding, diagnosis, investigations and treatment of ocular diseases. This edition has new chapters on glaucoma, trauma, global blindness with major revisions of chapters particularly cornea, cataract and retina. Photographs and images have been updated to reflect the progress in imaging systems and new diagnostic modalities. The electronic version of this book also includes short videos of common surgeries in ophthalmology. With more than 300 high quality pictures and concise text, this book will be an excellent reference for medical students, general practitioners, optometrists, paramedical personnel and community ophthalmic assistants to help

understand and treat common eye diseases.

The Cambridge Revision Guide

The Cambridge English Revision Guide: GCE O Level aims to help overseas students prepare for the English O level examination. Written by O level examiners in consultation with teachers and education officials from the target countries, it provides support for students based on a real understanding of the exams requirements. It covers the four main skills of continuous writing, directed writing, comprehension and summary writing. Students will be encouraged by its supportive tone as they work through the explanations and practice exercises. There is a wealth of examples as well as hints on a step by step approach to tackling longer writing tasks. Golden rules are highlighted to provide students with simple and memorable guidelines.

Cambridge IGCSE Biology 3rd Edition

Revision Guide to support students of Cambridge O Level Biology through their course and help them to prepare for assessment.

Complete Biology

This book is a comprehensive survey of our scientific knowledge about human intelligence, written by a researcher who has spent more than 30 years studying the field, receiving a Lifetime Contribution award from the International Society for Intelligence. Human Intelligence takes a non-ideological view of a topic in which, too often, writings are dominated by a single theory or social viewpoint. The book discusses the conceptual status of intelligence as a collection of cognitive skills that include, but also go beyond, those skills evaluated by conventional tests; intelligence tests and their analysis; contemporary theories of intelligence; biological and social causes of intelligence; the importance of intelligence in social, industrial, and educational spheres; the role of intelligence in determining success in life, both inside and outside educational settings; and the nature and causes of variations in intelligence across age, gender, and racial and ethnic groups.

ROMANCE ACTION & ADVENTURE MYSTERY & THRILLER BIOGRAPHIES & HISTORY CHILDREN'S YOUNG ADULT FANTASY HISTORICAL FICTION HORROR LITERARY FICTION NON-FICTION SCIENCE FICTION