Introducing Pure Mathematics By Robert Smedley And Garry Wiseman

This textbook covers the requirements of students taking pure mathematics as part of a single-maths A-level exam. It assumes a starting point of the equivalent of Level 7 in the National Curriculum or GCSE Grade B/C.

In this volume, the geometry of spherical space form groups is studied using the eta invariant. The author reviews the analytical properties of the eta invariant of Atiyah-Patodi-Singer and describes how the eta invariant gives rise to torsion invariants in both K-theory and equivariant bordism. The eta invariant is used to compute the K-theory of spherical space forms, and to study the equivariant unitary bordism of spherical space forms and the Pinc and Spinc equivariant bordism groups for spherical space form groups. This leads to a complete structure theorem for these bordism and K-theory groups.There is a deep relationship between topology and analysis with differential geometry serving as the bridge. This book is intended to serve as an introduction to this subject for people from different research backgrounds.This book is intended as a research monograph for people who are not experts in all the areas discussed. It is written for topologists wishing to understand some of the analytic details and for analysists wishing to understand some of the topological ideas. It is also intended as an introduction to the field for graduate students.

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An A-Level text following on from Introducing Mechanics by the same authors. The two books cover all the requirements for Mechanics as part of a double-certificate Mathematics for any examination board. A clear text is supported by worked examples, exercises, and examination questions.

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Introducing Statistics has been revised to meet the requirements of all the new A Level specifications. It covers in one volume all the statistics required by students taking single-subject Advanced Level Mathematics and also provides the basis for a first course in statistics in higher education. This is a highly accessible resource, supported by clear illustrations, nearly 200 worked examples, and packed with examination style questions. Suggestions for practical work and for calculator and computer exercises are included.

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An authoritative scientific history of a world-leading physics laboratory from its origins in the late nineteenth century to the

present day.

The collected works of Turing, including a substantial amount of unpublished material, will comprise four volumes: Mechanical Intelligence, Pure Mathematics, Morphogenesis and Mathematical Logic. Alan Mathison Turing (1912-1954) was a brilliant man who made major contributions in several areas of science. Today his name is mentioned frequently in philosophical discussions about the nature of Artificial Intelligence. Actually, he was a pioneer researcher in computer architecture and software engineering; his work in pure mathematics and mathematical logic extended considerably further and his last work, on morphogenesis in plants, is also acknowledged as being of the greatest originality and of permanent importance. He was one of the leading figures in Twentieth-century science, a fact which would have been known to the general public sooner but for the British Official Secrets Act, which prevented discussion of his wartime work. What is maybe surprising about these papers is that although they were written decades ago, they address major issues which concern researchers today.

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Introducing Pure MathematicsOxford University Press

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Following on from Introducing Pure Mathematics by Smedley and Wiseman, Further Pure Mathematics covers in one volume all the pure mathematics required by students taking further mathematics. It also provides the basics for mathematics encountered in Higher Education.

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This textbook covers in one volume all topics required in the pure mathematics section of single subject A-Level Mathematics syllabuses in

the UK, as well as a significant part of the work required by those studying for Further Mathematics and for A-Level
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