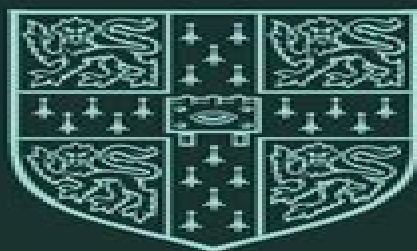


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A.N. Parshin, I.R. Shafarevich



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introduction to the topic of transcendental numbers for upper level undergraduate and graduate students The text is constructed to support a full course on the subject including descriptions of both relevant theorems and their applications While the first part of the book focuses on introducing key concepts the second part presents more complex material including applications of Baker's theorem Schanuel's conjecture and Schneider's theorem These later chapters may be of interest to researchers interested in examining the relationship between transcendence and L functions Readers of this text should possess basic knowledge of complex analysis and elementary algebraic number theory **Number Theory IV** A.N.

Parshin, I.R. Shafarevich, 1997-10-06 This book is a survey of the most important directions of research in transcendental number theory For readers with no specific background in transcendental number theory the book provides both an overview of the basic concepts and techniques and also a guide to the most important results and references Making

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of the authors of The Heart of Mathematics winner of a 2001 Robert W Hamilton Book Award He will also be awarded the 2004 Chauvenet Prize one of the most prestigious MAA prizes for outstanding exposition

Contributions to the Theory of Transcendental Numbers Gregory Chudnovsky,1984 Contains a collection of papers devoted primarily to transcendental number theory and diophantine approximations This title includes a text of the author s invited address on his work on the theory of transcendental numbers to the 1978 International Congress of Mathematicians in Helsinki

Transcendental Number Theory Alan Baker,2022-06-09 Alan Baker s systematic account of transcendental number theory with a new introduction and afterword explaining recent developments

Transcendental and Algebraic Numbers A. O. Gelfond,2015-01-05 Primarily an advanced study of the modern theory of transcendental and algebraic numbers this treatment by a distinguished Soviet mathematician focuses on the theory s fundamental methods The text also chronicles the historical development of the theory s methods and explores the connections with other problems in number theory The problem of approximating algebraic numbers is also studied as a case in the theory of transcendental numbers Topics include the Thue Siegel theorem the Hermite Lindemann theorem on the transcendency of the exponential function and the work of C Siegel on the transcendency of the Bessel functions and of the solutions of other differential equations The final chapter considers the Gelfond Schneider theorem on the transcendency of α to the power β Each proof is prefaced by a brief discussion of its scheme which provides a helpful guide to understanding the proof s progression

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