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Science & Technology \ Mathematics

Ghorpade, Sudhir R. **A course in calculus and real analysis**, by Sudhir R. Ghorpade and Balmohan B. Limaye. Springer, 2006. 432p bibl index afp ISBN 0-387-30530-0, $59.95; ISBN 9780387305301, $59.95. Reviewed in 2007feb CHOICE.

Ghorpade and Limaye (both, Indian Institute of Technology, Bombay) have written a very coherent and rigorous advanced calculus text on functions of one variable. The sequencing of topics in order of the chapters is "Numbers and Functions," "Sequences," "Continuity and Limits," "Differentiation," "Applications of Differentiation," "Integration," "Elementary Transcendental Functions," "Applications and Approximations of Riemann Integrals," and "Infinite Series and Improper Integrals." The chapters are followed by a list of symbols and abbreviations. Although the authors indicate that only a high school background is required, the book would be more appropriate for an honors calculus course or an undergraduate course on advanced calculus. There are a minimum of examples in the book. Theorems are carefully proven and exercises (without solutions) are provided. **Summing Up:** Recommended. Upper-division undergraduates. -- *R. L. Pour, Emory and Henry College*