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Titolo	Inside Interesting Integrals : A Collection of Sneaky Tricks, Sly Substitutions, and Numerous Other Stupendously Clever, Awesomely Wicked, and Devilishly Seductive Maneuvers for Computing Nearly 200 Perplexing Definite Integrals From Physics, Engineering, and Mathematics (Plus 60 Challenge Problems with Complete, Detailed Solutions) / / by Paul J. Nahin
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Collana	Undergraduate Lecture Notes in Physics, , 2192-4805
Disciplina	515/.4
Soggetti	Mathematical physics Mathematical analysis Engineering mathematics Engineering - Data processing Sequences (Mathematics) Integral equations Mathematical Methods in Physics Integral Transforms and Operational Calculus Mathematical and Computational Engineering Applications Sequences, Series, Summability Integral Equations
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	From the Contents: Preface -- Introduction -- 'Easy' Integrals -- Feynman's Favorite Trick -- Gamma and Beta Function Integrals -- Using Power Series to Evaluate Integrals -- Seven Not-So-Easy Integrals -- Using (-1) to Evaluate Integrals -- Contour Integration -- Epilogue -- Solutions to the Challenge Problems.
Sommario/riassunto	What's the point of calculating definite integrals since you can't possibly do them all? What makes doing the specific integrals in this book of value aren't the specific answers we'll obtain, but rather the

methods we'll use in obtaining those answers; methods you can use for evaluating the integrals you will encounter in the future. This book is written in a light-hearted manner for students who have completed the first year of college or high school AP calculus, and have just a bit of exposure to the concept of a differential equation. Every result is fully derived. If you are fascinated by definite integrals, then this is a book for you.
