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Titolo	An Introduction to Infinite Products / / by Charles H. C. Little, Kee L. Teo, Bruce van Brunt
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Nota di contenuto	Preface -- 1. Introduction -- 2. Infinite Products -- 3. The Gamma Function -- 4. Prime Numbers, Partitions and Products -- 5. Epilogue -- 6. Tables of Products -- References.
Sommario/riassunto	This text provides a detailed presentation of the main results for infinite products, as well as several applications. The target readership is a student familiar with the basics of real analysis of a single variable and a first course in complex analysis up to and including the calculus of residues. The book provides a detailed treatment of the main theoretical results and applications with a goal of providing the reader with a short introduction and motivation for present and future study. While the coverage does not include an exhaustive compilation of results, the reader will be armed with an understanding of infinite products within the course of more advanced studies, and, inspired by the sheer beauty of the mathematics. The book will serve as a reference for students of mathematics, physics and engineering, at the level of senior undergraduate or beginning graduate level, who want to know more about infinite products. It will also be of interest to instructors who teach courses that involve infinite products as well as mathematicians who wish to dive deeper into the subject. One could certainly design a special-topics class based on this book for

undergraduates. The exercises give the reader a good opportunity to test their understanding of each section.

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