



Divergent Series, Summability and Resurgence II: Simple and Multiple Summability (Lecture Notes in Mathematics)

By Michèle Loday-Richaud

Springer. Paperback. Condition: New. Addressing the question how to sum a power series in one variable when it diverges, that is, how to attach to it analytic functions the volume gives answers by presenting and comparing the various theories of k -summability and multisummability. These theories apply in particular to all solutions of ordinary differential equations. The volume includes applications, examples and revisits, from a cohomological point of view, the group of tangent-to-identity germs of diffeomorphisms of \mathbb{C} studied in volume 1. With a view to applying the theories to solutions of differential equations, a detailed survey of linear ordinary differential equations is provided which includes Gevrey asymptotic expansions, Newton polygons, index theorems and Sibuya's proof of the meromorphic classification theorem that characterizes the Stokes phenomenon for linear differential equations. This volume is the second of a series of three entitled Divergent Series, Summability and Resurgence. It is aimed at graduate students and researchers in mathematics and theoretical physics who are interested in divergent series. Although closely related to the other two volumes it can be read independently. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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