



**Comprehensive Mathematics for Computer
Scientists 2: Calculus and ODEs, Splines,
Probability, Fourier and Wavelet Theory, Fractals
and Neural Networks, Categories and Lambda
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Guerino Mazzola, Gérard Milmeister, Jody Weissmann

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This second volume of a comprehensive tour through mathematical core subjects for computer scientists completes the first volume in two regards: Part III first adds topology, differential, and integral calculus to the topics of sets, graphs, algebra, formal logic, machines, and linear geometry, of volume 1. With this spectrum of fundamentals in mathematical education, young professionals should be able to successfully attack more involved subjects, which may be relevant to the computational sciences. In a second regard, the end of part III and part IV add a selection of more advanced topics. In view of the overwhelming variety of mathematical approaches in the computational sciences, any selection, even the most empirical, requires a methodological justification. Our primary criterion has been the search for harmonization and optimization of thematic diversity and logical coherence. This is why we have, for instance, bundled such seemingly distant subjects as recursive constructions, ordinary differential equations, and fractals under the unifying perspective of co-contraction theory.

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