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Jaroslav Kurzweil (1926-2022) : the origins of his generalized Riemann integral

Abstract

Jaroslav Kurzweil died on March 17, 2022. After some remarks on the long history of the relations between integration and ordinary differential equations, we describe the origins of Kurzweil's generalized Riemann integral and its links with the averaging method and the generalized differential equations. We end with a sketch of his further contributions to integration.