MR2886259 26A39 (28B05) Naralenkov, Kirill(RS-MGIMO-MMI; Moscow))

Several comments on the Henstock-Kurzweil and McShane integrals of vector-valued functions. (English summary) Czechoslovak Math. J. **61(136) (2011), no. 4, 10911106.1572-9141**

In this paper the author essentially discusses the difference between the Henstock-Kurzweil and McShane integrals of vector-valued functions from the descriptive point of view. He first considers three notions of absolute continuity for vector-valued functions (AC, AC_*, AC_δ) and studies the relationships between the corresponding classes of functions. Then he uses such notions to give descriptive characterizations of the Henstock-Kurzweil and McShane integrable functions.

Reviewed by *L. Di Piazza*