

Integrální počet II

Rejstřík. D. Některé integrály

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D. NĚKTERÉ INTEGRÁLY

$$\int_0^{+\infty} e^{-x} x^{s-1} dx \text{ viz „funkce gamma“; } \int_0^1 x^{p-1} (1-x)^{q-1} dx \text{ viz „funkce}$$

beta“. Integrál pro Eulerovu konstantu viz 697, pro $\Gamma'(s) : \Gamma(s)$ 701, pro $\lg \Gamma(s)$

704. $\int_0^1 \frac{x^{\alpha-1} (1-x)^{\beta-1}}{(a+bx)^{\alpha+\beta}} dx$ (693); $\int_0^{\frac{1}{2}\pi} \sin^{m-1} x \cos^{n-1} x dx$ ($m > 0, n > 0$)

(692); $\int_0^{+\infty} e^{-ax} \cos bx \cdot x^{s-1} dx$, $\int_0^{+\infty} e^{-ax} \sin bx \cdot x^{s-1} dx$ ($a > 0, s > 0$) (344);

$\int_0^{+\infty} \cos bx \cdot x^{s-1} dx$, $\int_0^{+\infty} \sin bx \cdot x^{s-1} dx$ ($b \neq 0, 0 < s < 1$) (344); $\int_0^{+\infty} e^{cx} x^{s-1} dx$

pro komplexní c, s (346); $\int_0^{+\infty} \frac{x^{b-1}}{1+x} dx$ ($0 < b < 1$) (277); $\int_0^{+\infty} e^{-ax} \frac{\sin \beta x}{x} \cdot$

$\cdot dx$ ($\alpha > 0$) (334, 346); $\int_0^{+\infty} \frac{\sin \beta x}{x} dx$ (330, 335, 345, 352, 359); $\int_0^{+\infty} e^{-ax^2} \cdot$

$\cdot \cos bx dx$, $\int_0^{+\infty} e^{-ax^2} \sin bx dx$ ($a > 0$) (295); $\int_0^{+\infty} e^{-x^2} dx$ (142, 223, 251);

$\int_0^{+\infty} e^{-ax^2} \cos bx^2 dx$, $\int_0^{+\infty} e^{-ax^2} \sin bx^2 dx$ ($a > 0$) (340, 345); $\int_0^{+\infty} \cos x^2 dx =$

$= \frac{1}{2} \int_0^{+\infty} \cos t \frac{dt}{\sqrt{t}}$, $\int_0^{+\infty} \sin x^2 dx = \frac{1}{2} \int_0^{+\infty} \sin t \frac{dt}{\sqrt{t}}$ (342, 345, 361); $\int_0^{+\infty} \frac{\cos \alpha x}{\beta^2 + x^2} \cdot$

$\cdot dx$ ($\beta \neq 0$) (350, 357, 535); $\int_0^{+\infty} \frac{x \sin \alpha x}{\beta^2 + x^2} dx$ ($\beta \neq 0$) (350, 535).