A Short Table of Integrals (Paperback)

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\int \frac{\sqrt{x^{3} - a^{3}}}{x} dx = \sqrt{x^{3} - a^{3}} - a \cos^{-1} \frac{a}{x}
\int \frac{x dx}{\sqrt{a^{3} + x^{3}}} = \pm \sqrt{a^{3} + x^{3}} \qquad A
\int \frac{x dx}{\sqrt{x^{2} - a^{3}}} = \sqrt{x^{3} - a^{3}} \qquad SHORT
\int x \sqrt{x^{3} + a^{3}} dx = \frac{1}{2} \sqrt{(a^{3} + x^{3})^{3}} \qquad OF
\int \sqrt{(x^{3} + a^{3})^{3}} dx \qquad INTEGRALS
= \frac{1}{4} \left[ x \sqrt{(x^{2} + a^{3})^{3}} \pm \frac{3 a^{3} x}{2} \sqrt{x^{3} + a^{3}} + \frac{3 a^{4}}{2} \log(x + \sqrt{x^{2} + a^{3}}) \right]
\int \sqrt{(a^{3} - x^{2})^{3}} dx
= \frac{1}{4} \left[ x \sqrt{(a^{3} - x^{2})^{3}} + \frac{3 a^{3} x}{2} \sqrt{a^{3} - x^{3}} + \frac{3 a^{4}}{2} \sin^{-1} \frac{x}{a} \right]
\int \frac{dx}{\sqrt{(x^{2} + a^{3})^{3}}} = \frac{\pm x}{a^{3} \sqrt{x^{2} + a^{3}}}
\int \frac{dx}{\sqrt{(a^{3} - x^{2})^{3}}} = \frac{x}{a^{3} \sqrt{a^{3} - x^{3}}}
\int \frac{x dx}{\sqrt{(a^{3} - x^{3})^{3}}} = \frac{x}{a^{3} \sqrt{a^{3} - x^{3}}}
\int \frac{x dx}{\sqrt{(a^{3} - x^{3})^{3}}} = \frac{1}{\sqrt{x^{3} + a^{3}}}
B. O. Peirce
\int x \sqrt{(a^{3} + a^{3})^{3}} dx = \frac{1}{\sqrt{a^{3} - x^{3}}}
\int x \sqrt{(a^{3} - x^{3})^{3}} dx = \frac{1}{\sqrt{a^{3} - x^{3}}}
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Filesize: 4.78 MB

Reviews

This publication might be well worth a read, and much better than other. It really is simplified but excitement inside the 50 % of the book. You will not feel monotony at whenever you want of the time (that's what catalogues are for concerning when you check with me). (Imogene Bergstrom)

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