

## Higher Engineering Mathematics Multiple Integral Solutions

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the limits  $a$  and  $b$ , we get the double integral  $\int_a^b \int_c^d f(x,y) \, dx \, dy$ . If the integrand is a function  $f(x,y)$  and if it is integrated with respect to  $x$  and  $y$  repeatedly between the limits  $T_0$  and  $T_1$  (for  $x$ ) and between the limits  $U_0$  and  $U_1$  (for  $y$ ) we get a double integral that is denoted by the symbol  $\int_a^b \int_c^d f(x,y) \, dx \, dy$ .

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Multiple Integrals and their Applications 357 In this case, it is immaterial whether  $f(x, y)$  is integrated first with respect to  $x$  or  $y$ , the result is unaltered in both the cases (Fig. 5.5). Observations: While calculating double integral, in either case, we proceed outwards from the innermost integration and this concept can be generalized to repeated integrals with three or more variable also.

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