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TOPIC 11: FOURIER SERIES SOLUTION IN CARTESIAN CO-ORDINATES

A rectangular plate with insulated Surfaces is Docm wide and to log composed to its width that it may be considered infinite in length. If the temps at the Short edge 1120 372 U= G103 053510 and the two long U= G103 1053510. edges as well as the other Short edge are kept at Our Find the Steady shate tompy distribution in the Plate. Selt temp U(mus) 224 + 824 =0 4-0 The Condy are. () U(m(0)=0 () U(m(0)=0) () U(m(0)=0 () U(m(0)=0) () U(m(0)=0 () U(m(0)=0) () U(m(0)=0 () U(m(0)=0) () U(e



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The Quitable Solits U(mis) = (Aet , Bat) (CLOSPS + DSinps) 10 Opply () O-(Oper+ Bets) C C.00 Contrate and and Apply . O = (ARP, Bar) (D.S. POP) Sindop=0. Stnatt P= "/20 Apply () King [ne"+Be"] P.Shpy (A.w) (D.S. (PS) LO (A.O) " C" AC I AN ALO : (D Berometi Unale Berth D.Sm (my) gon Int. ALLOST. 5 Do ent Solant (ICANS)=) APP13 (A) U.S Dr Sin (mil 104 8 dy+ 10(20-1) 19 11 (1)



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