The Modified Bi-quintic B-spline base functions: An Application to Diffusion Equation

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Abstract

In this paper, the bi-quintic B-spline base functions are modified on a general 2-dimensional problem and then they are applied to two-dimensional Diffusion problem in order to obtain its numerical solutions. The computed results are compared with the results given in the literature. The error norms L_2 and L_∞ are computed and found to be marginally accurate and efficient.

References

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