This paper is concerned with best Chebyshev approximation of continuous functions by polynomial spline functions of degree m-1 with k fixed knots. For approximation problems defined on a finite set Rice considers the so-called strict approximation which is a particular best Chebyshev approximation. In this paper strict approximations are defined for best Chebyshev approximation by spline functions on intervals. Algorithms are given which determine these strict approximations.

MSC:
41A15 Spline approximation
41A50 Best approximation, Chebyshev systems

Keywords:
best Chebyshev approximation; polynomial spline functions; Algorithms