

Figure 1 displays a sequence of 24 Karnaugh maps, arranged in a grid, illustrating the step-by-step construction of a 5-variable logic function. The maps are labeled with variables  $X_1, X_0, X_3, X_2$ , and  $X_4$ . The first map shows the initial function, and subsequent maps show the addition of terms and the simplification of the expression. The final map shows the simplified function.