

# NEC SL1000 OVERVIEW AND BASIC PROGRAMMING



# Nec S11000 Programming

**Lei Huang**



## **Nec SI1000 Programming:**

1987 Census of Service Industries: A separate report for each state (alphabetical by state), 1989 *Control Engineering*  
,1986 *Instrumentation and automatic control systems* **Thomas Register's Mid-year Guide to Factory Automation**  
,1985 **Numerical Electromagnetic Code (NEC)-Basic Scattering Code. Part 2. Code Manual**, 1979 *The Numerical Electromagnetic Code Basic Scattering Code* is a user oriented computed code for the analysis of the far field patterns of antennas in the presence of perfectly conducting metal structures at UHF and above The analysis is based on uniform asymptotic techniques formulated in terms of the Geometrical Theory of Diffraction GTD Complicated structures can be simulated by arbitrarily oriented flat plates an infinite ground plane and a finite elliptic cylinder A wide range of practical problems can be simulated using these shapes For example flat plates can be used to model the superstructure of a ship the body of a truck or the wings and stores of an aircraft The finite elliptic cylinder can be used to model a mast or smoke stack of a ship or the fuselage and engines of an aircraft This document describes the FORTRAN coding in detail It gives background on practical aspects of the GTD and contains an overview of the code organization This information will be of primary interest to someone attempting to modify the code It will also be helpful when the code is being implemented on a computer system on which the coding may not be compatible Numerical Electromagnetic Code (NEC)-Basic Scattering Code. Part I. User's Manual R. J. Marhefka,W. D. Burnside,OHIO STATE UNIV COLUMBUS ELECTROSCIENCE LAB.,1979 *The Numerical Electromagnetic Code Basic Scattering Code* is a user oriented computed code for the analysis of the far field patterns of antennas in the presence of perfectly conducting metal structures at UHF and above The analysis is based on uniform asymptotic techniques formulated in terms of the Geometrical Theory of Diffraction GTD Complicated structures can be simulated by arbitrarily oriented flat plates an infinite ground plane and a finite elliptic cylinder A wide range of practical problems can be simulated using these shapes For example flat plates can be used to model the superstructure of a ship the body of a truck or the wings and stores of an aircraft The finite elliptic cylinder can be used to model a mast or smoke stack of a ship or the fuselage and engines of an aircraft This document is designed to give an overall view of the operation of the computer code to instruct a user in how to model structures and to show the validity of the code by comparing various computed results against measured data whenever available It also describes in detail the input and output data for the code This information should be sufficient for most user s to learn how to effectively operate the code Author **Practical Spectrum Machine Code Programming** Steve Webb,1982

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