

## PARALLEL COMPUTING

Parallel processing, Parallel computer structure, designing of parallel algorithms, analyzing algorithms, general principles of parallel computing, Parallel sorting algorithms, Batcher's bitonic sort. Bitonic sort using the perfect shuffle, parallel bubble sort, add-even transport sort, Tree sort, quick sort, sorting on the CRCW, CRFW, EREW models, searching a sorted sequence, CREW, CRCW, & EREW searching, searching on a random sequence EREW, ERCW, CREW & CRCW searching on the tree, mesh .a network for merging ,merging on the CRFW,ERFW models, computing Fourier Transforms, Computing the DFT in parallel, a parallel FFT algorithm .

### BOOKS:

1. " Design and Analysis of Prallel Algorithm by Salim & Akl, PIII(International Editions)
2. "Design Efficient Algorithm for Parallel Computers by Michel J.Quinn.  
Mc Graw Hill, I nternational Editions.