Rohini College of Engineering & Technology

UNIT I INTRODUCTION AND ALLOWABLE STRESS DESIGN

Relative advantages and Limitations

Working stress design	Limit state design
Working stress method is the elastic method	Limit state method is similar to plastic design
of design	which considers most critical limit states of strength and serviceability.
Structural members may be temporarily be	The structure is designed to withstand safely
over loaded under certain circumstances	all loads likely to act on it.
Working stress design assumes same factor	In limit state design method the partial safety
of safety for dead loads and live loads	factor are different for dead and live loads.
Savings in weight of steel decreases	Savings in weight of steel of the order of 15
J. ZAM, K	per cent for tension and compression
OBSERVE OPTIM	members and 10 percent for beams may be
	achieved by limit state method.