





ENVIRONMENTAL DESIGN

COLLEGE OF

INTRODUCTION

- Maintenance management has gone through some amazing changes this century, and so has the equipment- the physical resources used to manufacture, process, transport, and serve.
- Trying to predict the future based on the past is dubious, at best.
- However, equipment design and use are changing, and so must maintenance to keep pace.









	CHANG	GING ASSETS	S-CHANG	ING TACT	ICS 5/7
	Generat	tion 1 st	2 nd	3 rd	4 th (?)
	Strategy	Breakdown	Prevention	Prediction	Reliance
	Structure	 Central craft groups 	Multicraft teams	Multiskilled trades	Polyskilled technician
	Failure Manageme	nt > Operate to failure	Scheduled overhaul	FMECA and CBM	➤ Self-analysis
	Data Manageme	nt > Card files	Mainframe functions	 Fully functional CMMS 	 Fully networked Stations
	Measures	➢ Throughput	> Availability	 Equipment Effectiveness 	Probabilities
	Figure 10.2 Maintenance Management Generations				



















	EN	IERGING STRATEGIES 1/2	
.LEGE OF ENVIRONMENTAL DESIGN	*	So what will be the definitive maintenance management strategy of the twenty-first century?	
	*	Fig. 10.4 shows the trend away from simple repair after failure to complex blends of engineering and the human element.	
	*	One thing is certain. The sophistication and complexity of how the equipment is made and what it can do must be matched by the same level of expertise in maintenance strategy and tactics.	
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