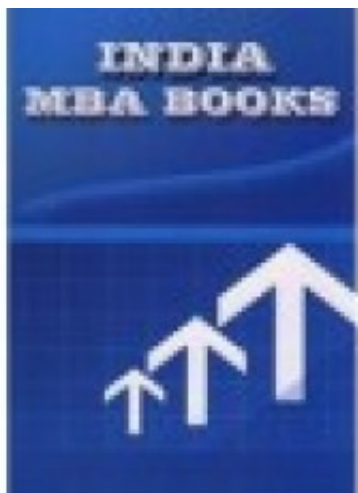


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UNIT I INTRODUCTION 9

Difference between hazards and disaster -Types of disasters-Phases of disaster management -

**Hazards - Classification of hazards - Hazards affecting buildings - Building safety against hazards
- Floods - Cyclone - Landslides -Tsunami - Fire.**

UNIT II EARTHQUAKE DISASTER 9

**Earthquake hazard map -Causes of earthquakes
-Classification of earthquakes -Seismic waves -
Energy release - Inertia forces - Natural period -
Resonance - Damping -Seismic response of free
vibration -Seismic response of damped vibration
-Performance of ground and buildings in past
earthquakes-Earthquake resistant measures in RC and
masonry buildings - Potential deficiencies
of RC and masonry buildings.**

UNIT III OTHER DISASTERS 9

**Landslides-Landslide zoning map - Causes -Protection
measures Floods -Flood zone map -
Effects on buildings -Protection measures from damage to
buildings -Mitigation strategies -Tropical
cyclones - Effects on buildings -Protection measures from
damage to buildings - Tsunami -
Tsunami wave characteristics -Peculiarities of tsunami
deposits -Tsunami impact on coastal linesEffects of
Tsunami on built structures - Fire disaster - Causes and
effects of fire disaster -
Preventive mechanism .**

UNIT IV HAZARD ASSESSMENT 9

Visual inspection and study of available documents

-Detailed in-situ investigation planning and interpretation of results-Foundation capability -Non-structural components - Seismic strengthening of buildings –Repairs, restoration and strengthening of existing buildings - Strengthening materials -Retrofitting of load bearing wall buildings - Retrofitting of RC Buildings-RVS method of screening - RC and masonry structures -Seismic hazard assessment - Deterministic seismic hazard analysis - PSHA.

UNIT V LAND USE ZONING REGULATIONS , QUALITY CONTROL AND DISASTER MANAGEMENT POLICY 9

Introduction-Community planning - Community contingency plan - Report building and initial awareness - Recommendations for land use zoning regulations - Construction quality control -

Evolution of quality management -Reasons for poor construction -Construction of quality control in masonry structures - Disaster management policy and procedure -Legal frame work - Institutional mechanism - Schemes and grants on DM - Recommendation of 13th finance commission -Plan schemes - Non plan schemes - Externally aided schemes Role of NDRF in Disaster Management

- Medical First Responder - Flood Rescue &Relief

Management

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