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Nota di contenuto	Intro -- FIRE SAFETY -- FIRE SAFETY -- CONTENTS -- PREFACE -- SMOKE AND FIRE DYNAMICS IN ATRIA AND LARGE ENCLOSURES: AN OVERVIEW -- ABSTRACT -- 1. INTRODUCTION -- 2. ATRIUM DEFINITION -- 3. ATRIUM TYPOLOGY -- 4. ATRIUM FIRE DYNAMICS AND SAFETY PROBLEMS -- 5. FIRE STRATEGIES AND DESIGN -- 6. COMPUTER MODELLING -- 7. SPRINKLERS AND SMOKE DETECTORS -- 8. THE PROCESS OF SMOKE FILLING -- 9. NATURAL VENTING OF SMOKE -- 10. MECHANICAL VENTING OF SMOKE -- 11. SPILL PLUME DYNAMICS -- 12. CURRENT DESIGN TRENDS IN FIRE SAFETY -- ACKNOWLEDGMENTS -- REFERENCES -- A BRIEF REVIEW ON APPLYING COMPUTATIONAL FLUID DYNAMICS IN BUILDING FIRE HAZARD ASSESSMENT -- ABSTRACT -- 1. INTRODUCTION -- 2. LITERATURE REVIEW -- 3. TURBULENCE MODEL -- Reynolds Averaging of Navier-Stokes Equation (RANS) -- Large Eddy Simulation (LES) -- 4. DISCRETIZATION OF THE CONSERVATION EQUATIONS: FINITE VOLUME METHOD -- 5. VELOCITY-PRESSURE LINKED EQUATIONS -- 6. COMBUSTION AND MODELLING OF THE HEAT RELEASED -- 7. THE FIRE DYNAMICS SIMULATOR -- 8. VERIFICATION AND VALIDATION -- 9. APPLICATION TO FIRE SAFETY ENGINEERING -- 10. AN EXAMPLE -- 11. FUNCTIONAL ANALYSIS -- 12. FREE BOUNDARY CONDITIONS -- 13. CONCLUSIONS -- REFERENCES -- SIMPLIFIED ASSESSMENT OF

PROTECTIVE MEASURES TO PREVENT FIRE ESCALATION INVOLVING PRESSURIZED VESSELS -- ABSTRACT -- NOMENCLATURE -- 1. INTRODUCTION -- 2. FIREBALL AND BLEVE HAZARD FOR PRESSURIZED VESSELS -- 3. ESTIMATION OF DOMINO ESCALATION PROBABILITY -- 4. ESTIMATION OF VESSEL TIME TO FAILURE -- 4.1. Modeling Approach to Time to Failure Calculation -- 4.2. The Lumped Model -- 4.3. THE FINITE ELEMENT MODEL (FEM) -- 4.3. LUMPED MODEL VALIDATION -- 4.4. SIMPLIFIED CORRELATIONS FOR TTF ESTIMATION -- 5. ESCALATION THRESHOLDS AND ESCALATION PROBABILITY -- 5.1. Assessment of Escalation Thresholds and Probabilities -- 5.2. Effect of Passive Protection Systems.

6. CONCLUSIONS -- 7. REFERENCES -- FIRE SAFETY OF OLDER CHINESE MIGRANTS IN WESTERN AUSTRALIA -- ABSTRACT -- INTRODUCTION -- METHODS -- Recruitment Procedure -- Instrument -- Statistical Analysis -- RESULTS -- DISCUSSION -- ACKNOWLEDGMENTS -- REFERENCES -- THE USE OF EGRESS/PEDESTRIAN SIMULATION MODELS AS TECHNOLOGICAL TOOLS TO PROVIDE THE SAFETY OF OCCUPANTS UNDER EMERGENCY SITUATIONS -- ABSTRACT -- 1. INTRODUCTION - THE USE OF EGRESS/PEDESTRIAN MODELS -- 2. BRIEF DISCUSSION ON FIRE SAFETY CODES -- 3. BRIEF DESCRIPTION OF SOME EGRESS/PEDESTRIAN MODELS -- 3.1. SIMULEX [9] -- 3.2. STEPS [10] -- 4. EXPERIENCE IN DEVELOPING AND IMPLEMENTING THE PERFORMANCE-BASED CODES AND ITS IMPACT ON THE USE AND DEVELOPMENT OF EGRESS/PEDESTRIAN MODELS -- 5. REFERENCES -- FIRE DURING TRANSFER OF LPG FROM THE ROAD TANKER TO HORTON SPHERE - RUPTURE OF THE HOSE ATTACHED TO THE MANIFOLD -- ABSTRACT -- INTRODUCTION -- THE INCIDENCE -- TRANSFER THROUGH LPG COMPRESSOR -- TANK TRUCK UNLOADING OPERATIONS -- Preparation within Plant -- PRECAUTIONS TO BE TAKEN IN TRANSFER OPERATIONS -- LESSON LEARNED -- CONCLUSION -- REFERENCES -- FIRE ACCIDENT AT A REFINERY IN INDIA: THE CAUSES AND THE LESSON LEARNED -- ABSTRACT -- INTRODUCTION -- THE EVENT -- IMMEDIATE CAUSE -- CONSEQUENCES OF THE INCIDENT -- EMERGENCY MEASURES TAKEN -- RECOMMENDATIONS -- CONCLUSIONS -- REFERENCES -- INDEX.

Sommario/riassunto

This volume discusses the first aim of fire safety - to provide the safety of occupants, and to avoid and/or reduce the number of fatalities (and/or the number of injuries). A broad overview of the current state-of-the-art of fires in atria is also discussed.

2. Record Nr.	UNINA9911144474203321
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Nota di contenuto	Front matter -- Contents -- List of Plates -- Abstract -- Acknowledgments -- Introduction -- Methods -- Taxonomic synopsis of the Fijian ant Fauna -- Species plates -- Literature Cited -- Appendix A. Collection localities -- Appendix B. Checklist of the ants of Fiji
Sommario/riassunto	The ant fauna of the Fijian archipelago is a diverse assemblage of endemic radiations, pan-Pacific species, and exotics introduced from around the world. The Ants of Fiji describes the entire Fijian ant fauna, and includes the results of a recently completed archipelago-wide biodiversity inventory. A total of 187 ant species representing 43 genera are recognized here with an illustrated key to genera, synopses of each species, keys to species of all genera, and a species list. The work is heavily illustrated with specimen images, distribution maps, and habitat elevation charts.