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Nota di contenuto	BUILDING FIRE PERFORMANCE ANALYSIS; CONTENTS; Preface; Acknowledgement; 1 Understanding, deciding, communicating; 1.1 The destination; 1.2 Codes and standards; 1.3 Routine practices; 1.4 A way of thinking; 1.5 Evaluation levels; 1.6 Applications; 1.7 Road map; References; 2 Fire defenses; 2.1 Introduction; 2.2 Building fire defenses; 2.3 Active fire defenses; 2.4 Passive fire defenses; 2.5 Closure; 3 Basic concepts; 3.1 Introduction; 3.2 Concepts and definitions; 3.3 Performance evaluations; 4 The anatomy of building fires; 4.1 Introduction; 4.2 The building; 4.3 The fire protection systems 4.4 The fire4.5 The anatomy of a building fire; 4.6 Fire in the room of origin; 4.7 Barrier effectiveness and fire propagation; 4.8 Fire department operations; 4.9 The structural frame; 4.10 Smoke movement; 4.11 Life safety; 4.12 Performance evaluations and risk characterizations; 4.13 Summary; 5 A way of thinking; 5.1 Introduction; 5.2 The building/fire performance system; 5.3 Performance

evaluations; 5.4 The window of uncertainty; 5.5 Estimating performance; 5.6 Evaluation levels; 5.7 Visual thinking; 5.8 Example of effective communication; 5.9 Summary; 6 Framework for analysis
6.1 Introduction6.2 Network diagrams; 6.3 Continuous value networks: concepts; 6.4 Continuous value networks: calculations and graphing; 6.5 Single value networks: concepts; 6.6 Single value networks: calculations; 6.7 Networks and performance curves: discussion; 6.8 The L curve; 6.9 The L curve for a room of origin; 6.10 The L curve for a building fire path; 6.11 L curve communication; 7 Prolog to applications; 7.1 Introduction; 7.2 Tools of the trade; 7.3 Fire prevention; 7.4 Building types; 7.5 Selection of the room of origin; 7.6 Design fire concepts; 7.7 The design fire
7.8 Performance analysis overview7.9 Fire performance: M curve analysis; 7.10 Fire performance: A curve analysis; 7.11 Putting it together: the L curve; 7.12 Structural frame behavior: the Fr curve; 7.13 Smoke analysis; 7.14 Risk characterizations; 7.15 Summary; Reference; 8 Design fires; 8.1 The need; 8.2 Fire in a room; 8.3 Fire development in small rooms; 8.4 Interior design and model rooms; 8.5 Realms of fire growth; 8.6 Level 2 concepts; 8.7 Level 2 framework; 8.8 Discussion; 8.9 Large room concepts; 8.10 Level 2 framework for large rooms; 8.11 Level 3 evaluations; 8.12 Level 1 concepts
8.13 Concepts of fire growth potential classification8.14 Fire growth potential classifications; 8.15 Illustrations of the classification process; 8.16 Discussion for room classifications; 8.17 t(2) fires; 8.18 The design fire; 8.19 The I curve; 8.20 Thoughts on design fires; 8.21 Summary; Reference; 9 Barriers and multiroom fires; 9.1 Introduction; 9.2 Barrier functions; 9.3 Concepts for barrier evaluations; 9.4 Barrier performance descriptors; 9.5 The barrier/space module; 9.6 Summary; 10 Barrier performance; 10.1 Pause for review; 10.2 Chapter organization; 10.3 The standard fire test
10.4 Standard test discussion

Sommario/riassunto

Around the world, prescriptive building codes and fire safety standards are increasingly being replaced or supplemented by performance-based standards. This book discusses the implications in the industry to provide increased design flexibility, lower costs, improved safety, and even enhanced global trade.The building fire performance evaluation procedures described in this book can be used with any code, standard, or regulatory requirements. The key feature of this publication is its aid to professionals who work in the building and other such industries to make better decisions conce