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Literature Survey of Cold-formed Structures

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LITERATURE SURVEY OF COLD-FORMED STRUCTURES

INTRODUCTION

The subcommittee on Literature Survey of the ASCE Committee on Cold-Formed Members was formed in April, 1975. This survey marks the most recent work product of the subcommittee. Because of the increased acceptance of cold-formed steel structures in the market place, the magnitude of research has increased. Therefore, the task of assembling a literature survey has become a more challenging effort.

Although the task of assembling a literature survey is never complete, hopefully this survey will provide a useful research and design tool for both researchers and design engineers. The survey entries have been classified according to structural behavior, structural element type or other pertinent characteristic. The classification categories and their corresponding chapter numbers are as follows:

1. Mechanical Behavior and Cold-Forming Effects
2. Strength of Thin Flat or Curved Elements
3. Flexural Members
4. Compression Elements
5. Beam Columns
6. Cylindrical Tubular Members
7. Connections
8. Shear Diaphragms
9. Corrugated Sheets and Formed Panels
10. Plate Structures
11. Shell Structures
12. Composite Construction
13. Structural Systems
14. Computer-Aided Design
15. Dynamic Behavior of Structures
16. Reliability Analysis, Limit Design
17. Fire Resistance Ratings
18. Texts, Specifications and Commentaries

Although every effort was made to have a complete survey, inevitably there will be some omissions. Authors whose work does not appear, are urged to submit their work to the Committee or Subcommittee members to ensure recognitions in future surveys.

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Roger A. LaBoube, Chairman
Committee on Cold-Formed Members

CHAPTER 1

Mechanical Behavior and Cold-Forming Effects

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CHAPTER 2

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CHAPTER 3

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CHAPTER 4

Compression Elements

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CHAPTER 8

Shear Diaphragms

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CHAPTER 9

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CHAPTER 11

Shell Structures

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CHAPTER 12

Composite Construction

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CHAPTER 13

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CHAPTER 14

Computer-Aided Design

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