

## CHAPTER 4: MAIN FRAMING DESIGN

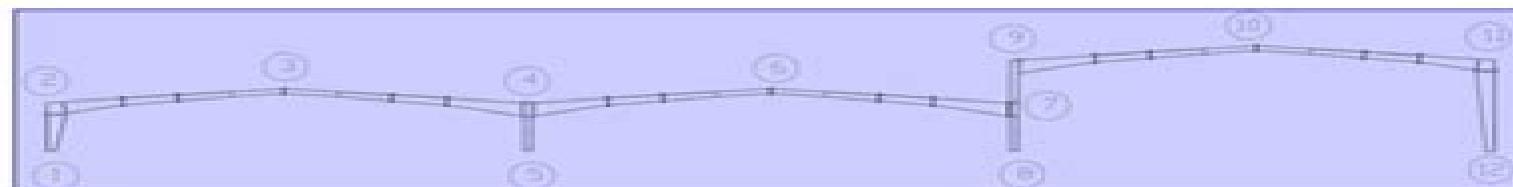
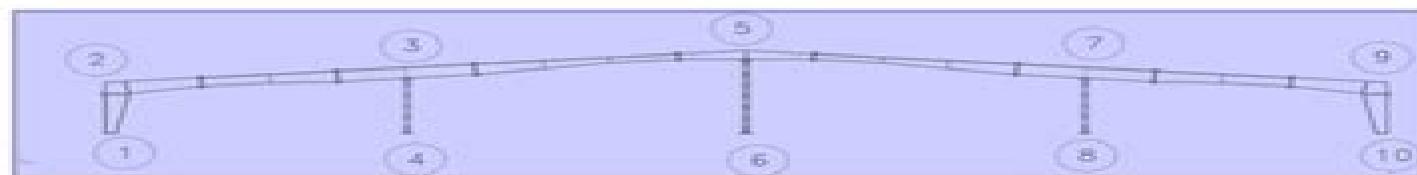
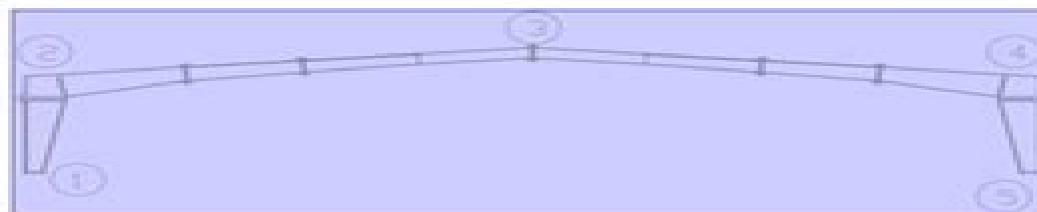
### 4.1. Main Frame Design Procedure and Constraints

Main frame method of design, the choice of haunch depths, haunch lengths and splice location has a significant effect on the economy of the building as a whole. In house special software (ASFAD) is used for the design procedure.

#### 4.1.1. ASFAD

Design and analysis of rigid frames is carried out using an in-house developed software ASFAD. This package was developed to satisfy the requirements of the Pre-Engineered Steel Buildings industry using C++ language utilizing the latest programming, analysis and design techniques. It has many features to facilitate design of various elements and to ensure the economy, safety, uniformity and high quality of the structural designs. Refer to the computer aids manual for detail information and user guidelines on this software. However some features are outlined here.

Structural modeling is based on dividing the Structure into **Members**, which connect to each other at common points called **Nodes**. Following are few examples of node numbering:



The method used for the analysis of a Structure is the **Stiffness Matrix Method**.

# Structural Design Manual Instability

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## **Structural Design Manual Instability:**

### **Proceedings of the 4th Congrès International de Géotechnique - Ouvrages -Structures** Hoang-Hung

Tran-Nguyen, Henry Wong, Frederic Ragueneau, Cuong Ha-Minh, 2017-10-20 This proceedings volume for the 4th international conference CIGOS 2017 Congrès International de Géotechnique Ouvrages Structures presents novel technologies solutions and research advances making it an excellent guide in civil engineering for researchers students and professional engineers alike. Since 2010 CIGOS has become a vital forum for international scientific exchange on civil engineering. It aims to promote beneficial economic partnerships and technology exchanges between enterprises worldwide institutions and universities. Following the success of the last three CIGOS conferences 2010 2013 and 2015 the 4th conference was held at Ho Chi Minh City University of Technology Ho Chi Minh City Saigon Vietnam on 26 to 27 October 2017. The main scientific themes of CIGOS 2017 were focused on New Challenges in Civil Engineering **Flow-Induced Vibration** S. Ziada, M. Samir, T. Staubli, 2000-01-01 Flow induced vibrations and noise continue to cause problems in a wide range of engineering applications ranging from civil engineering and marine structures to power generation and chemical processing. These proceedings bring together more than a hundred papers dealing with a variety of topics relating to flow induced vibration and noise. The content

**Comité européen du béton objectifs réalisations et perspectives composition 1975-1977 des commissions et groupes de travail** FIB - International Federation for Structural Concrete, 1974-05-01 **ICES TRUDL-II, the Structural Design Language: Frame analysis, by Robert D. Logcher [and others]**, 1970 **Long Span Roof Structures**, 1981 **Guide to the CEB Euro-International Committee for Concrete**, 1996 **Scientific and Technical Aerospace Reports**, 1969 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **Steel Structures Design for Lateral and Vertical Forces, Second Edition** Alan Williams, 2016-05-20 A Thoroughly Updated Guide to the Design of Steel Structures This comprehensive resource offers practical coverage of steel structures design and clearly explains the provisions of the 2015 International Building Code the American Society of Civil Engineers ASCE 7-10 and the American Institute of Steel Construction AISC 360-10 and AISC 341-10 Steel Structures Design for Lateral and Vertical Forces Second Edition features start to finish engineering strategies that encompass the entire range of steel building materials members and loads All techniques strictly conform to the latest codes and specifications A brand new chapter on the design of steel structures for lateral loads explains design techniques and innovations in concentrically and eccentrically braced frames and moment frames Throughout design examples including step by step solutions and end of chapter problems using both ASD and LRFD methods demonstrate real world applications and illustrate how code requirements apply to both lateral and vertical forces This up to date Second Edition covers Steel Buildings and Design Criteria Design Loads Behavior of Steel Structures under Design Loads Design of Steel Beams in Flexure Design of Steel Beams for Shear and Torsion Design of

Compression Members Stability of Frames Design by Inelastic Analysis Design of Tension Members Design of Bolted and Welded Connections Plate Girders and Composite Members Design of Steel Structures for Lateral Loads *A Collection of Technical Papers on Automated Design, Materials, Structures* ,1973 Guide to Stability Design Criteria for Metal Structures Structural Stability Research Council,1976 1st and 2d editions have title Guide to design criteria for metal compression members Congress Fédération internationale de la précontrainte,1982 Fourth International Conference : Structural Design of Asphalt Pavements, August 22 Through 26, 1977, Horace H. Rackham Building Lecture Hall, the University of Michigan, Ann Arbor, Michigan, U.S.A. ,1979 Structural Design for Architecture Angus Macdonald,1997 Intended principally for use by students of architecture this book provides information required for making sensible choices on the structural aspects of architectural design **Petroleum Abstracts** ,1977-04 Problems Involving Thermal-hydraulics, Liquid Sloshing, and Extreme Loads on Structures Frederick J. Moody,2003 *Fifth International Bridge Engineering Conference* ,2000 Papers presented at the Fifth International Bridge Engineering Conference April 3 5 2000 Tampa Florida **Flow-induced Vibrations** ,1996 Ship Structural Design Owen F. Hughes,1983 **A Collection of Technical Papers on ...** ,1973 **Naval Engineers Journal** ,2002

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## **Table of Contents Structural Design Manual Instability**

1. Understanding the eBook Structural Design Manual Instability
  - The Rise of Digital Reading Structural Design Manual Instability
  - Advantages of eBooks Over Traditional Books
2. Identifying Structural Design Manual Instability
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Structural Design Manual Instability
  - User-Friendly Interface
4. Exploring eBook Recommendations from Structural Design Manual Instability
  - Personalized Recommendations
  - Structural Design Manual Instability User Reviews and Ratings

- Structural Design Manual Instability and Bestseller Lists
- 5. Accessing Structural Design Manual Instability Free and Paid eBooks
  - Structural Design Manual Instability Public Domain eBooks
  - Structural Design Manual Instability eBook Subscription Services
  - Structural Design Manual Instability Budget-Friendly Options
- 6. Navigating Structural Design Manual Instability eBook Formats
  - ePUB, PDF, MOBI, and More
  - Structural Design Manual Instability Compatibility with Devices
  - Structural Design Manual Instability Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Structural Design Manual Instability
  - Highlighting and Note-Taking Structural Design Manual Instability
  - Interactive Elements Structural Design Manual Instability
- 8. Staying Engaged with Structural Design Manual Instability
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Structural Design Manual Instability
- 9. Balancing eBooks and Physical Books Structural Design Manual Instability
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Structural Design Manual Instability
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Structural Design Manual Instability
  - Setting Reading Goals Structural Design Manual Instability
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Structural Design Manual Instability
  - Fact-Checking eBook Content of Structural Design Manual Instability
  - Distinguishing Credible Sources

---

- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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