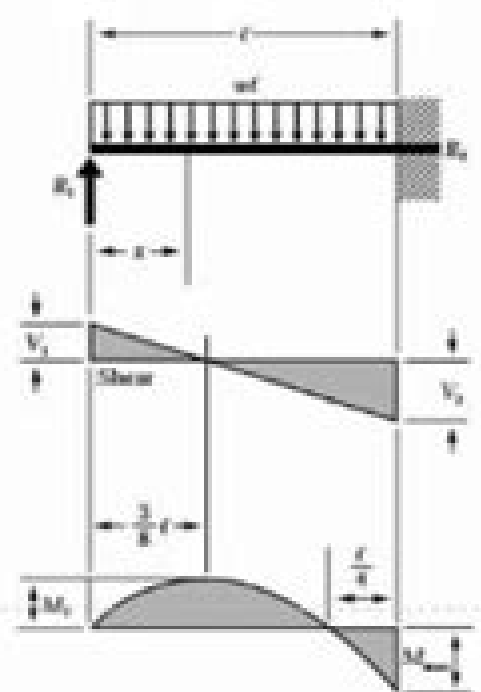


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Load  $w = 30 \frac{\text{kN}}{\text{m}}$

Span Length  $L = 8\text{m}$

Reaction  $R_1 = \frac{2wL}{3} = 90\text{kN}$

$R_2 = \frac{5wL}{3} = 150\text{kN}$

$M_2 = \frac{wL^2}{8} = 240\text{kN}\cdot\text{m}$

Free Body Diagram

Shear Force

$$V(x) = (R_1 - wx) \quad (x \leq L)$$

# Mathcad Structural Engineering Library

**Philippe Wenger, Paulo Flores**



## **Mathcad Structural Engineering Library:**

*The Structural Engineer*, 2001     Structural Analysis of Multi-Storey Buildings Karoly Zalka, 2020-03-02 The structural analysis of multi storey buildings can be carried out using discrete computer based models or creating continuum models that lead to much simpler albeit normally approximate results The book relies on the second approach and presents the theoretical background and the governing differential equations for researchers and simple closed form solutions for practicing structural engineers The continuum models also help to understand how the stiffness and geometrical characteristics influence the three dimensional behaviour of complex bracing systems The back of the envelop formulae for the maximum deflection and rotation load shares fundamental frequency and critical load facilitate quick global structural analysis for even large buildings It is shown how the global critical load ratio can be used for monitoring the health of the structure acting as a performance indicator and safety factor Evaluating the results of over sixteen hundred calculations the accuracy of the procedures is comprehensively demonstrated by comparing the discrete and continuum results Nineteen worked examples illustrate the use of the methods whose downloadable MathCad and Excel worksheets [www.crcpress.com](http://www.crcpress.com) 9780367350253 can also be used as templates for similar practical situations     **Choice**, 2000     **Laboratory**

**Microcomputer**, 1992     **Scientific and Technical Aerospace Reports**, 1995     **Modern Steel Construction**, 2003

*4th fib Congress in Mumbai India* FIB - International Federation for Structural Concrete, 2014-02-01     Data Sources, 2000     **Machine Design**, 2000     *New Trends in Mechanism and Machine Science* Philippe Wenger, Paulo Flores, 2016-09-03 This book collects the most recent advances in mechanism science and machine theory with application to engineering It contains selected peer reviewed papers of the sixth International Conference on Mechanism Science held in Nantes France 20-23 September 2016 covering topics on mechanism design and synthesis mechanics of robots mechanism analysis parallel manipulators tensegrity mechanisms cable mechanisms control issues in mechanical systems history of mechanisms mechanisms for biomechanics and surgery and industrial and nonindustrial applications     **NASA Tech Briefs**, 1993     *Ways to Study and Research Urban, Architectural and Technical Design* T.M. de Jong, D.J.M. van der Voordt, 2005-12-31 How can we develop a scientific basis for architectural urban and technical design When can a design be labelled as scientific output comparable with a scientific report What are the similarities and dissimilarities between design and empirical research and between design research typological research design study and study by design Is there a need for a particular methodology for design driven study and research With these questions in mind more than forty members of the Faculty of Architecture of the Delft University of Technology have described their ways of study and research Each chapter shows the objectives the methodology and its implementation in search for a deeper knowledge of design processes and an optimal quality of the design itself The authors among them architects urban planners social scientists lawyers technicians and information scientists have widely differing backgrounds Nevertheless they share a great deal The central

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