

## ③ Maximum shear at mid-span

To obtain max. shear at the mid-span use influence line.



$$\frac{h}{8.2} = \frac{-0.5}{12.5}$$

$$h = -0.328$$

Max. shear at mid-span:

$$V_{max} = 71.2(0.5) + 17.8(0.328)$$

$$V_{max} = 41.44 \text{ kN}$$

## 2. CE Board May 2022

Beam ABCDE is to be analyzed for maximum forces at ultimate conditions. The beam is simply supported at A, B, C, D and E.

Factored loads:

Dead load = 15 kN/m

Live load = 19 kN/m

- ① Determine the max. shear at B.
- ② Determine the max. reaction at B.
- ③ Determine the max. positive moment at span AB.

# May 2012 Civil Engineering Board Exam

**Boston (Mass.). City Council**

## May 2012 Civil Engineering Board Exam:

**PPI Transportation Depth Reference Manual for the Civil PE Exam eText - 1 Year** Norman Voigt,2018-09-03

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Department of Regulatory Agencies. Office of Policy, Research, and Regulatory Reform,2012 *Occupational Outlook Handbook 2011-2012* U.S. Department of Labor,2011-06-03 The most comprehensive up to date resource available for choosing the career that s right for you When making a decision about your career path it is crucial that you consider any aspect of a job that will affect your future your sense of fulfillment and your bottom line With current statistics from the number one source of job data in America the U S Department of Labor the Occupational Outlook Handbook 2011 2012 is your best choice for researching careers whether you re looking for your first job or contemplating a career change From able seaman to zoologist you ll get vital information about more than 250 occupations including Nature of the work and working conditions Earnings Training qualifications and advancement Job outlook With its vast amount of practical up to date information the Occupational Outlook Handbook is an essential tool for making informed intelligent decisions about your future Did you know Training at a vocational school college or university is increasingly important for getting a job as a travel agent A physician assistant s working conditions can vary from regular hours in an office setting to long periods of standing

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the context for cybersecurity workforce development 2 considering the relative advantages disadvantages and approaches to professionalizing the nation s cybersecurity workforce and 3 setting forth criteria that can be used to identify which if any specialty areas may require professionalization and set forth criteria for evaluating different approaches and tools for professionalization Professionalizing the Nation s Cybersecurity Workforce Criteria for Decision Making characterizes the current landscape for cybersecurity workforce development and sets forth criteria that the federal agencies participating in the National Initiative for Cybersecurity Education as well as organizations that employ cybersecurity workers could use to identify which specialty areas may require professionalization and to evaluate different approaches and tools for professionalization    **The City Record** Cleveland (Ohio),1919    **Congressional Record** ,    **East West** ,1980

**Oregon Administrative Rules Compilation** ,2015    *Proceedings of the Common Council, for the City of Rochester, for ... Rochester (N.Y.). Common Council,1902*    **The City Record** New York (N.Y.),1887    *Reports of Proceedings ... ,1917*    **Reports of Proceedings** ... Boston (Mass.). City Council,1917    **Proceedings ... Rochester (N.Y.). Council,1902 School** ,1912

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