

BEAM DIAGRAMS AND FORMULAS

For various static loading conditions

For meaning of symbols, see page 2 - 293

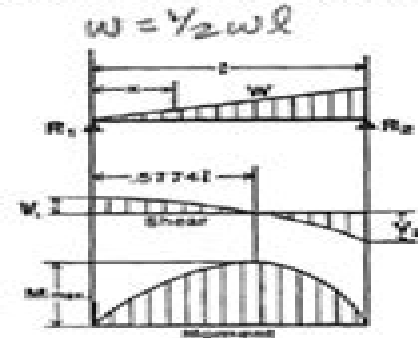
AISC Beam Tables

1. SIMPLE BEAM—UNIFORMLY DISTRIBUTED LOAD



Total Equiv. Uniform Load	$= wl$
$R = V$	$= \frac{wl}{2}$
V_x	$= w \left(\frac{l}{2} - x \right)$
M max. (at center)	$= \frac{wl^2}{8}$
M_x	$= \frac{wx}{2} (l - x)$
Δ max. (at center)	$= \frac{5wl^4}{384EI}$
Δ_x	$= \frac{wx}{24EI} (l^3 - 2lx^2 + x^3)$

2. SIMPLE BEAM—LOAD INCREASING UNIFORMLY TO ONE END



Total Equiv. Uniform Load	$= \frac{15W}{8\sqrt{3}} = 1.0254W$
$R_1 = V_1$	$= \frac{W}{3}$
$R_2 = V_2$ max.	$= \frac{2W}{3}$
V_x	$= \frac{W}{3} - \frac{Wx^2}{l^2}$
M max. (at $x = \frac{l}{\sqrt{3}} = .5774l$)	$= \frac{2Wl}{8\sqrt{3}} = .1283 Wl$
M_x	$= \frac{Wx}{3l^2} (l^3 - 3x^3)$
Δ max. (at $x = l \sqrt{1 - \sqrt{\frac{8}{15}}} = .5193l$)	$= .01304 \frac{Wl^4}{EI}$
Δ_x	$= \frac{Wx}{180EI l^2} (3x^4 - 10l^2x^2 + 7l^4)$

3. SIMPLE BEAM—LOAD INCREASING UNIFORMLY TO CENTER



Total Equiv. Uniform Load	$= \frac{4W}{3}$
$R = V$	$= \frac{W}{2}$
V_x (when $x < \frac{l}{2}$)	$= \frac{W}{2l^3} (l^3 - 4x^3)$
M max. (at center)	$= \frac{Wl}{6}$
M_x (when $x < \frac{l}{2}$)	$= Wx \left(\frac{1}{2} - \frac{2x^2}{3l^2} \right)$
Δ max. (at center)	$= \frac{Wl^4}{80EI}$
Δ_x (when $x < \frac{l}{2}$)	$= \frac{Wx}{480EI l^3} (5l^3 - 4x^3)^2$

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the classic text provides you with more of the detailed up to the minute technical information and expert guidance you need to make optimum use of this incredibly versatile material for building construction Wei Wen Yu and Roger LaBoube respected authorities in the field draw upon decades of experience in cold formed steel design research teaching and development of design specifications to provide guidance on all practical aspects of cold formed steel design for manufacturing civil engineering and building applications Throughout the book they describe the structural behavior of cold formed steel members and connections from both the theoretical and experimental perspectives and discuss the rationale behind the AISI and North American design provisions Cold Formed Steel Design Fourth Edition features Thoroughly up to date 2007 North American AISI S100 design specifications Both ASD and LRFD methods for USA and Mexico LSD Limit States Design method for Canada A new chapter on the Direct Strength Method Updates and revisions of all 14 existing chapters In depth design examples and explanation of design provisions Cold Formed Steel Design Fourth Edition is a necessary tool of the trade for structural engineers manufacturers construction managers and architects It is also an excellent advanced text for college students and researchers in structural engineering architectural engineering construction engineering and related disciplines

Cost-effective Practices for Off-system and Local Interest Bridges F. W. Klaiber, Terry J. Wipf, Francesco M. Russo, National Cooperative Highway Research Program, 2004 TRB s National Cooperative Highway Research Program NCHRP Synthesis 327 Cost Effective Practices for Off System and Local Interest Bridges examines off system bridge design construction maintenance financing rehabilitation and replacement For this report off system refers to those bridges typically owned and maintained by local agencies and by state agencies on rural and other low volume roads

The Structural Engineer, 1999 **The Manual of Bridge Engineering** M. J. Ryall, G. A. R. Parke, J. E. Harding, 2000 Bridge type behaviour and appearance David Bennett David Bennett Associates History of bridge development Bridge form Behaviour Loads and load distribution Mike Ryall University of Surrey Brief history of loading specifications Current code specification Load distribution concepts Influence lines Analysis Professor R Narayanan Consulting Engineer Simple beam analysis Distribution coefficients Grillage method Finite elements Box girder analysis steel and concrete Dynamics Design of reinforced concrete bridges Dr Paul Jackson Gifford and Partners Right slab Skew slab Beam and slab Box Design of prestressed concrete bridges Nigel Hewson Hyder Consulting Pretensioned beams Beam and slab Pseduo slab Post tensioned concrete beams Box girders Design of steel bridges Gerry Parke and John Harding University of Surrey Plate girders Box girders Orthotropic plates Trusses Design of composite bridges David Collings Robert Benaim and Associates Steel beam and concrete Steel box and concrete Timber and concrete Design of arch bridges Professor Clive Melbourne University of Salford Analysis Masonry Concrete Steel Timber Seismic analysis of design Professor Elnashai Imperial College of Science Technology and Medicine Modes of failure in previous earthquakes Conceptual design issues Brief review of seismic design codes Cable stayed bridges Daniel Farquhar Mott MacDonald Analysis Design Construction Suspension bridges Vardaman

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Commerce Business Daily, 1998-05 **Structural Design** James R. Underwood, Michele Chiuini, 1998 Structural Design presents the conceptual and practical underpinnings of basic building design and technology in a single comprehensive source It provides essential coverage of the integral relationships of structural architectural form and spatial organization and an understanding of the impact of load configurations and other key determinants of design Essential principles as well as structural solutions are visually reinforced with hundreds of architectural drawings photographs and other illustrations making this book truly architect friendly Ideal for use as a general and technical reference in the design studio as a study aid for the architectural registration exam or as an office resource Structural Design is a superb companion for the architecture student and practicing professional It includes In depth coverage of steel wood reinforced concrete and masonry including lateral force generation and design Over 1 000 illustrations and photographs Real world examples sample problems and useful references throughout Conventional and SI unit systems

Synthesis of Highway Practice National Cooperative Highway Research Program, 2004 Marks' Standard Handbook for Mechanical Engineers, 12th Edition Ali M. Sadegh, William M. Worek, 2017-11-10 The 100th Anniversary Edition of the Bible for Mechanical Engineers Fully Revised to Focus on the Core Subjects Critical to the Discipline This 100th Anniversary Edition has been extensively updated to deliver current authoritative coverage of the topics most critical to today's Mechanical Engineer Featuring contributions from more than 160 global experts Marks Standard Handbook for Mechanical Engineers Twelfth Edition offers instant access to a wealth of practical information on every essential aspect of mechanical engineering It provides clear concise answers to thousands of mechanical engineering questions You get accurate data and calculations along with clear explanations of current principles important codes standards and practices All new sections cover micro and nano engineering robotic vision alternative energy production biological materials biomechanics composite materials engineering ethics and much more Coverage includes Mechanics of solids and fluids Heat Strength of materials Materials of engineering Fuels and furnaces Machine elements Power generation Transportation Fans

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Contractor's Guide to the Building Code Jack M. Hageman, 2008 Don't let your jobs be held up by failing code inspections Smooth sign off by the inspector is the goal but to make this ideal happen on your job site you need to understand the requirements of latest editions of the International Building Code and the International Residential Code Understanding what the codes require can be a real challenge This new completely revised Contractor's Guide to the Building Code cuts through the legalese of the code books It explains the important requirements for residential and light commercial structures in plain simple English so you can get it right the first time *Handbook of Civil Engineering Calculations, Second Edition*

Tyler G. Hicks, S. David Hicks, 2007-05-23 Table of Contents Preface How to Use This Handbook Sect 1 Structural Steel Engineering and Design Sect 2 Reinforced and Prestressed Concrete Engineering and Design Sect 3 Timber Engineering Sect 4 Soil Mechanics Sect 5 Surveying Route Design and Highway Bridges Sect 6 Fluid Mechanics Pumps Piping and Hydro Power Sect 7 Water Supply and Stormwater System Design Sect 8 Sanitary Wastewater Treatment and Control Sect 9 Engineering Economics Index I *Flying Magazine*, 1994-04 **Modern Classic Motorcycle News - Issue 45**

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, 1997 Civil Engineering Learning Technology Robert Mitchell Lloyd, Carolynne Moore, 1999 The field of civil engineering offers specific challenges to the higher education sector Civil engineering's blend of management design and analysis requires people with a combination of academic and experimental knowledge and skill based abilities This volume brings together papers by leading practitioners in the field of learning technology within the discipline of civil engineering to

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web aug 31 2020 in case of experiencing vms many women aged less than 45 years 50 were shown to experience only hot flush as a monosymptom whereas for women aged 45 60 years the cases in which both hot flush and sweating were experienced increased up

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web hrt medicines contain female hormones that replace those your body no longer produces during menopause hrt is used to treat hot flashes bone loss vaginal dryness and atrophy and low estrogen

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web jun 24 2020 natural hormone replacement therapy hrt uses hormones derived from plants to treat hormonal conditions there are two main types of natural hrt bioidentical hrt and traditional

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feelings are very important and they are a part of everyone there are lots of different types of feelings sometimes we feel happy and sometimes we feel sad these are just two

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there are twelve different posters each displaying synonyms for a range of adjectives to do with our feelings happy sad scared angry excited worried frightened upset calm hopeful proud and loving this is great for helping pupils to develop their vocabulary

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a colourful word mat containing the main vocabulary encountered when writing about feelings children can learn to articulate emotions with these feeling words ks1

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recognise how other people feel when they are happy sad angry or lonely key stage 1 strand 1 their own and other s feelings and emotions and how their actions affect others

feelings and emotions bbc bitesize - Oct 09 2022

what are feelings and emotions we all have feelings they are part of everyone we feel different things at different times depending on what happens to us sometimes we feel sad like

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course 4 5k views basic feeling words happy refers to being pleased mad means to be upset by something sad refers to having sorrow or unhappiness we often use the words

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sad synonyms word list since they already know what a replacement word for happy can be why not also teach some for sad the resource features a list of 12 synonyms for the words sad that can be printed and displayed in minutes together you can discuss what form is appropriate for what situation

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powerpoint slides ks1 lesson1 bereavement to support lesson delivery feelings fans or feelings photo cards these are resources which explain that we are going to hear a story about a child who feels sad and happy we will start with feeling happy and what makes us happy at school divide a flip chart page into four and draw a happy face in

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dr radha is joined by her two puppet friends ben and breagha to find out about feeling sad and together they explore ways to help you feel happier this clip is from the series feeling

list of emotions for kids word mats primary resources twinkl - Feb 13 2023

twinkl this resource is not yet rated why not leave your own review how can i use this list of emotions for kids this list of emotions for kids is great for talking about feelings and improving emotional literacy

feeling sad what can you do powerpoint teacher made - Nov 10 2022

this presentation discusses feelings why we have them and where they come from it focuses on uncomfortable emotions and what pupils could do to try and work on them it also offers advice on what to do if the uncomfortable feelings don t go away it is aimed at cfe first level pupils

[how to be happy bbc teach](#) - Apr 03 2022

1 entry music don t worry be happy by bobby mcferrin there are various versions available on youtube 2 introduction you could start by asking pupils to name some of the emotions they have

sad synonyms word list ready to print resources twinkl - Feb 01 2022

introduce this synonym for sad word list to your class to help improve their vocabulary and sentence writing in their first years of primary school utilising these synonyms will make their creative writing pieces more expressive and efficient instead of using the word sad repetitively

happyandsadfeelingwordssk1 paul christelis copy - Sep 08 2022

he feels angry happy calm sad and scared all at once to help him a little girl shows him what each feeling means through colour a gentle exploration of feelings for young 3 and old alike environmental learning for classroom and assembly at ks1 ks2 mal leicester 2009 03 06 in environmental learning for classroom and assembly at ks1

[feelings relationships lcp](#) - Apr 15 2023

activity sheet sad sam s choices and discuss the options they have chosen further suggestions ask the children to make happy and sad puppets and then make up their own story using happy and sad puppet characters ask the children to make happy and sad mobiles or jigsaws ask the children to find happy and sad images in

what makes me happy what makes me sad teaching - Jan 12 2023

apr 1 2022 pdf 785 93 kb here are two writing frames for children to record write or draw what makes them happy and what makes them sad there are two worked examples to share and talk about with the children showing what makes this pretend child feel happy and sad

emotions and feeling vocabulary word mats teacher made - Mar 14 2023

there are lots of ways to teach children about feelings and emotions one particularly effective way is through teaching them the vocabulary of feeling words you can use these handy emotions word cards for ideas for different vocabulary on the board draw a large circle

list of feeling words for kids yourdictionary - May 16 2023

jul 20 2020 happy feeling words the word happy means a feeling of enjoyment or pleasure it s how you might feel when you open a christmas present you really wanted or get to spend the day with your best friend bubbly cheerful content delighted ecstatic glad joyful loved merry peaceful pleased satisfied silly terrific wonderful advertisement

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its practically what you compulsion currently this happy and sad feeling words ks1 as one of the most working sellers here will no question be in the course of the best options to review happy and sad feeling words ks1 2022 03 07 jayla hooper i m glad my mom died free spirit publishing the characters happiness anger sadness and pride are

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radha you can make someone else feel happy by doing something nice for them or you can be happy yourself when you do something really well and if everything just makes you smile then