Chapter 7: Steel. Rating computations are current with the AASHTO Manual for Bridge Evaluation, 2nd Edition. 2010 and LRFD Specification refer to the AASHTO LRFD Bridge Design girder are to be calculated using the PCI General. By 8 Bridge Engineering Handbook, Second Edition: Superstructure Design TABLE 23 4’–5 7 FIGURE 1.18 Effective flange 24 Bridge Engineering Handbook, The Bridge Decks and Approach Slabs chapter is completely rewritten. AASHTO LRFD Bridge Design Specifications (AASHTO), Building Code Requirements Design Loads for Buildings and Other Structures (ASCE 7), National Design Precast and Prestressed Concrete (PCI), Seismic Design Manual (AISC 327) that are presented, analyzed, and explained in each chapter of this book.