

Jean-Marie Paillé

Calcul des structures en béton

Guide d'application de l'Eurocode 2



4^e édition

Calcul Des Structures En Beacuteton Guide Dapplication

Roman Saint-Hilaire



Calcul Des Structures En Beacuteton Guide Dapplication:

Calcul des structures en béton Jean-Marie Paillé, 2013-12-14 Entièrement refondue et mise à jour cette édition du guide d'application prend notamment en compte les dernières modifications apportées aux articles de l'Eurocode 2 révisés publiés par l'Afnor en 2013 ainsi que l'annexe nationale révisée Calcul des structures en béton Jean-Marie Paillé, 2022-10-27 La mise à jour de ce manuel de référence dont la précédente édition remonte à 2016 Annexes nationales des EN 1992-1 et 1992-3 RCI prend en compte des articles du guide d'application de l'Eurocode 2 FDP 18 717 de 2021 et de fin 2022 Le texte

Calcul des structures en bois Yves Benoit, Bernard Legrand, Vincent Tastet, 2019 D'actualité pour les maisons individuelles le bois devient de plus en plus présent dans l'habitat collectif les bâtiments industriels et le génie civil bien que le béton et les structures métalliques y demeurent majoritaires En construction bois on verra ici comment le chelon d'un pied de poteau la liaison bois métallique unit les trois matériaux emblématiques La validation d'un projet de bâtiment soumis des actions repose sur deux critères la vérification de la résistance et la vérification de la déformation L'objectif tant d'assurer la sécurité et le confort des usagers et de limiter les déformations du bâtiment on sait que ce sont les états limites ultimes ELU associés aux différentes formes de défaillance structurale qui visent à assurer la sécurité des personnes et des biens tandis que les états limites de service ELS correspondent des conditions de fonctionnement des ouvrages et de confort des usagers Solidement établies dans ce manuel professionnel de formation initiale et continue ces connaissances y sont également illustrées par de nombreuses applications résolues Pour sa quatrième édition ce livre de référence a été complété par l'exposé de la liaison des ouvrages en pied de poteau La liaison bois métallique comporte une platine d'extrémité soudée sur la face supérieure d'un profil métallique des plaques métalliques complètent la liaison en permettant la reprise des actions de cisaillement et de soulèvement grâce aux boulons ou broches La liaison métallique est assurée par une platine d'extrémité soudée sur la face inférieure du profil métallique Cette plaque transmet au bâtiment les efforts de compression elle est percée pour être fixée avec des tiges d'ancrage Si l'on veut transmettre des actions de cisaillement importantes on peut souder sous la platine un profil supplémentaire la bache Source 4e de couverture Calcul des structures en bois Yves Benoit, Bernard Legrand, Vincent Tastet, 2014 La validation d'un projet de bâtiment soumis des charges repose sur deux critères la vérification de la résistance et la vérification de la déformation L'objectif tant d'assurer le confort des personnes et de limiter les déformations du bâtiment on sait que les états limites ultimes ELU associés aux différentes formes de défaillance structurale visent à assurer la sécurité des personnes et des biens tandis que les états limites de service ELS correspondent des conditions de fonctionnement des ouvrages et de confort des usagers Solidement établies dans ce manuel professionnel de formation initiale et continue ces connaissances y sont également illustrées par de nombreuses applications résolues Pour sa troisième édition ce livre de référence a été complété par la construction parasismique en bois En effet malgré la réglementation particulière dont le calcul des structures pour leur résistance aux séismes fait l'objet Eurocode 8 les manuels actuels n'en proposaient pas encore d'application spécifique aux

structures bois Le bois d'aujourd'hui pour les maisons individuelles devient pourtant de plus en plus présent dans l'habitat collectif les bâtiments industriels et le génie civil bien que le béton et les structures métalliques y demeurent majoritaires Ingénieurs et architectes pourront enfin trouver ici de quoi mesurer l'incidence de l'ECS sur leurs projets depuis que le nouveau zonage sismique de la France tend son application 60% des communes soit 21 000 communes contre 6 000 avant 2014

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Développer des outils de calculs de structure avec Excel selon les Eurocodes

Roman Saint-Hilaire, 2024-06-19 Lors du dimensionnement des structures les logiciels de CAO et Excel sont le plus souvent utilisés en parallèle les premiers sont indispensables pour appréhender le comportement global de la structure étudiée et effectuer les vérifications d'usage le second est très couramment utilisé pour réaliser des calculs plus spécifiques et valider voire confirmer certains résultats Il arrive régulièrement de rencontrer des tableurs Excel inutilement compliqués difficiles d'utilisation et comportant même parfois des erreurs de syntaxe L'objectif de cet ouvrage est de fournir un ensemble de bonnes pratiques et de méthodes permettant de créer des feuilles de calcul ergonomiques fiables et sécurisées Ce guide pratique se compose de sept chapitres Le premier chapitre est un rappel sur les Eurocodes leur origine et leur fonctionnement sont fournis Les parties déterminantes pour sourcer les calculs sont présentées Les quatre chapitres suivants sont consacrés aux fondamentaux d'Excel travers de nombreux exemples on y découvre le vocabulaire et la syntaxe du logiciel des fonctionnalités essentielles les outils de mise en forme et les graphiques ainsi qu'une introduction à la programmation VBA Le sixième chapitre présente tout un ensemble de règles de conception et de structuration qui sont appliquées rigoureusement afin de produire des tableurs de qualité professionnelle Enfin le dernier présente six cas pratiques permettant d'aborder en détail l'ensemble des bonnes pratiques non écrites calcul de la section d'armatures d'une semelle de fondation EC2 détermination des accélérations sismiques de calcul EC8 vérification d'un poteau en acier EC3 calcul de l'enrobage nominal EC2 calcul de la charge de neige sur une toiture versant unique EC1 et vérification de la résistance en flexion d'une poutre en bois EC5 Didactique tout en couleur l'ouvrage fournit de nombreuses captures d'écran illustrant les manipulations Chaque exemple présenté correspond à une nécessité de terrain

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