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2.2.2. Requirements to second-order analysis; 2.3. Member and system instability
2.3.1. Elastic critical load and effective (buckling) length
2.3.2. System instability principles; 2.3.3. Concrete column instability - limit load;
2.4. First- and second-order load effects; 2.4.1. Global and local second-order effects; 2.4.2. Single members; 2.4.3. Frame mechanics - braced and bracing columns; 2.4.4. Moment equilibrium at joints; 2.5. Maximum moment formation; 2.5.1. Maximum first- and second-order moment at the same section; 2.5.2. Maximum first- and second-order moment at different sections; 2.5.3. Curvature-based maximum moment expression
2.5.4. Unbraced frame application example
2.6. Local and global slenderness limits; 2.6.1. Local, lower slenderness limits - general; 2.6.2. EC2 - local lower slenderness limits; 2.6.3. NS-EC2 - Local lower slenderness limits; 2.6.4. Comparison of the EC2 and NS-EC2 limits; 2.6.5. Local upper slenderness limit; 2.6.6. Global lower slenderness limit; 2.7. Effect of creep deformations; 2.7.1. General; 2.7.2. Effects on load and deformation capacity; 2.7.3. Approximate calculation of creep effects; 2.8. Geometric imperfections; 2.8.1. Imperfection inclination
2.8.2. Stiffening structural elements
2.8.3. Stiffened and isolated structural elements; 2.9. Elastic analysis methods; 2.9.1. Principles, equilibrium and compatibility; 2.9.2. Equilibrium and compatibility at multiple sections; 2.9.3. Optimization; 2.10. Practical linear elastic analysis; 2.10.1. Stiffness assumptions; 2.10.2. EC2 approach; 2.10.3. ACI 318 approach; 2.11. Simplified analysis and design methods; 2.11.1. General; 2.11.2. Simplified second-order analysis; 2.11.3. Method based on nominal stiffness; 2.11.4. Method based on nominal curvature; 2.12. ULS design
2.12.1. Simplified design methods

Sommario/riassunto

This book is focused on the theoretical and practical design of reinforced concrete beams, columns and frame structures. It is based on an analytical approach of designing normal reinforced concrete structural elements that are compatible with most international design rules, including for instance the European design rules - Eurocode 2 - for reinforced concrete structures. The book tries to distinguish between what belongs to the structural design philosophy of such structural elements (related to strength of materials arguments) and what belongs to the design rule aspects associated with

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Nota di contenuto	1 Inhalt 5 Vorwort 7 1. Zur Problemlage - Annäherungen 13 2. Typisierungen Der Macht Und Spielräume Der Freiheit: Alternativen 57 3. Neue Formen Der Hybridisierung - Autonomie, Kontrolle Und Die »Kolonialisierung Der Lebenswelt« 125 4. »Macht Über Die Macht« - Herausforderung Der Technikethik? 177 Literatur 231 249
Sommario/riassunto	Inwieweit sind unsere Handlungsvollzüge und ihre Ordnungen durch Technik bedingt? Nachdem Christoph Hubig die Ermöglichungsfunktion der Technik freigelegt (Band I) und eine Moral für den Umgang mit technischen Möglichkeiten entwickelt hat (Band II), entwirft er nun in diesem (eigenständig lesbaren) Band III in kritischer Auseinandersetzung mit Foucault und der Akteur-Netzwerk-Theorie ein technikadäquates Machtkonzept. Jenseits eines »Technikdeterminismus« oder der Behauptung einer eigendynamischen Technikevolution steht dabei der Unterschied zwischen einer Strukturdynamik und einer Netzdynamik im Vordergrund. Zudem werden die Erträge dieser Modellierung für die Frage eines Wandels von Autonomie und (ethischer) Kontrolle geltend gemacht. »Mit der ›Macht der Technik‹ steht Hubig nicht nur, wie in seinen bisherigen Arbeiten, an der Spitze der Technik-Philosophie, sondern

nutzt auch einige der elaboriertesten Beiträge der Philosophie der Macht, als Modaltheorie der Macht, in überzeugender Weise, um sie mit der Technikphilosophie zu verbinden.« Kurt Röttgers, Zeitschrift für Kulturphilosophie, 10/1 (2016)
