1. Record Nr. UNINA9910809212503321 Autore Rimkus Liudvikas Titolo Structural mechanics: a handbook for students: study book // Liudvikas Rimkus, Juozas Nagevicius, Romanas Karkauskas Vilnius:,: Technika,, 2012 Pubbl/distr/stampa **ISBN** 609-457-225-4 Descrizione fisica 1 online resource (190 p.) Soggetti Mechanics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. Nota di contenuto Contents; Introduction; 1. General statements; 1.1. The Purpose of Calculations and the Main Assumptions; 1.2. Design Schemes for Structures; 1.3. Classification of Design Schemes for Structures; 1.4. Actions and Loads; 1.5. Supports and Links; 1.6. Formulation of Principal Problems Encountered in Structural Mechanics; 1.7. Degree of Freedom; 1.8. Analysis of a Geometricaly Stable Bar Structure; 1.9. Physical Models of Materials; 2. Statically determinate systems; 2.1. Analysis of Beams; 2.2. Influence Lines for Beams; 2.2.1. The Concept of the Influence Line 2.2.2. Influence Lines for Simple Beams2.2.3. Influence Lines for Continuous Beams; 2.2.4. Calculation of Unknown Quantities Applying Influence Lines; 2.2.5. Calculation of Extreme (Highest/Lowest) Values

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