1. Record Nr. UNINA990005823280403321

Autore	Dziwerek, Katarzyna
Titolo	Polish subjects / Katarzyna Dziwirek
Pubbl/distr/stampa	New York ; London : Garland, 1994
ISBN	0-8153-1688-7
Descrizione fisica	XIV, 335 p. ; 24 cm
Collana	Outstanding dissertations in linguistics
Disciplina	491.85
Locazione	FLFBC
Collocazione	491.8 DZI 1
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia

2. Record Nr. UNISA996205824803316

Autore	Dubina Dan
Titolo	Design of cold-formed steel structures . Part 1-3 Design of cold-formed steel structures : Eurocode 3 : design of steel structures / / Dan Dubina, Viorel Ungureanu, Raffaele Landolfo
Pubbl/distr/stampa	Berlin, [Germany] : , : ECCS - European Convention for Constructional Steelwork, , 2012 ©2012
ISBN	3-433-60227-1 3-433-60225-5 3-433-60228-X
Edizione	[First edition.]
Descrizione fisica	1 online resource (676 p.)
Disciplina	720.944
Soggetti	Building, Iron and steel Steel, Structural - Design and construction Steel - Cold working
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	Cover; Title Page; Contents; Foreword; Preface; Chapter 1 Introduction To Cold-Formed Steel Design; 1.1 General; 1.2 Cold-formed steel sections; 1.2.1 Types of cold-formed steel sections; 1.2.2 Manufacturing; 1.2.3 Some peculiar characteristics of cold-formed steel sections; 1.3 Peculiar problems of cold-formed steel design; 1.3.1 Buckling strength of cold-formed steel members; 1.3.2 Torsional rigidity; 1.3.3 Web crippling; 1.3.4 Ductility and plastic design; 1.3.5 Connections; 1.3.6 Design assisted by testing; 1.3.7 Design standards; 1.3.7.1 North American Cold-formed Steel Specification, 1.3.7.2 Australian/New Zealand Standard - AS/NZS 4600, 2005 Edition (AS/NZS, 2005)1.3.7.3 Eurocode 3 - Design of Steel Structures, Part 1.3 - General Rules, Supplementary Rules for Cold-formed Thin Gauge Members and Sheeting; 1.3.8 Fire resistance; 1.3.9 Corrosion; 1.3.10 Sustainability of cold-formed steel construction; 1.4 Main applications of cold-formed steel; 1.4.1 Advantages of cold-formed steel in building construction; 1.4.1.1 Advantages during construction; 1.4.1.2 Advantages in service; 1.4.2 Applications; Chapter 2 Basis Of Design; 2.1 General; 2.2 Limit state design 2.3 Actions on structures. Combinations of actions 2.3.1 Verification at the Ultimate Limit State; 2.3.2 Verification at the Serviceability Limit State; 2.3.2.1 Deflections; 2.3.2.2 Dynamic effects; 2.4 Materials; 2.4.1 General; 2.4.2 Structural steel; 2.4.2.1 Material properties of base material; 2.4.2.2 Material properties of cold-formed sections and sheeting; 2.4.2.3 Thickness and thickness tolerances; 2.5 Methods of analysis and design; 2.5.1 Methods of analysis - Global frame analysis; 2.5.2 Finite Element Methods (FEM) for analysis and design; 2.5.3 Design assisted by testing 2.6 Imperfections 2.6.1 Imperfections for global analysis of frames; 2.6.2 Imperfections for analysis of bracing systems; 2.6.3 Role of imperfections in advanced numerical simulation; 2.6.3.1 Section imperfections; 2.6.3.2 Residual stresses; Chapter 3 Behaviour And Resistance Of Cross Section; 3.1 General; 3.2 Properties of gross cross section; 3.2.1 Nominal dimensions and idealisation of cross section; 3.2.2 Net geometric properties of perforated sections; 3.2.3 Dimensional limits of component walls of cold-formed steel sections; 3.2.4 Modelling of cross section component walls for analysis 3.3 Flange curling3.4 Shear lag; 3.5 Local buckling; 3.5.1 Sectional buckling modes in thin-walled sections; 3.5.2 Elastic buckling of thin plates; 3.6 Distortional buckling: analytical methods for predicting elastic distortional buckling stresses; 3.6.1 The method given in EN 1993-1-3:2006; 3.7 Design against local and distortional buckling according to EN 1993-1-3; 3.7.1 General; 3.7.2 Plane elements without stiffeners; 3.7.3 Plane elements with edge or intermediate stiffeners; 3.7.3.1 General; 3.7.3.2 Plane elements with edge stiffeners; 3.7.3.2.1 Conditions; 3.7.3.3.2 General procedure 3.7.3.3 Plane elements with intermediate stiffeners
Sommario/riassunto	The book is concerned with design of cold-formed steel structures in building based on the Eurocode 3 package, particularly on EN 1993-1-3.It contains the essentials of theoretical background and design rules for cold-formed steel sections and sheeting, members and connections for building applications. Elaborated examples and design applications - more than 200 pages - are included in the respective chapters in order to provide a better understanding to the reader.

3.

Record Nr.	UNINA9910881093803321
Autore	Antoniadis Anestis
Titolo	Statistical Learning Tools for Electricity Load Forecasting / / by Anestis Antoniadis, Jairo Cugliari, Matteo Fasiolo, Yannig Goude, Jean-Michel Poggi
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Birkhäuser, , 2024
ISBN	3-031-60339-7
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (232 pages)
Collana	Statistics for Industry, Technology, and Engineering, , 2662-5563
Altri autori (Persone)	CugliariJairo FasioloMatteo GoudeYannig PoggiJean-Michel
Disciplina	519
Soggetti	Statistics Machine learning Statistics in Engineering, Physics, Computer Science, Chemistry and Earth Sciences Statistical Learning Machine Learning Energia elèctrica Models matemàtics Llibres electrònics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Part I: A Toolbox of Models -- Additive Modelling of Electricity Demand with mgcv -- Probabilistic GAMs: Beyond Mean Modelling -- Functional Time Series -- Random Forests -- Aggregation of Experts -- Mixed Effects Models for Electricity Load Forecasting -- Part II: Case Studies: Models in Action on Specific Applications -- Disaggregated Forecasting of the Total Consumption -- Aggregation of Multi-Scale Experts -- Short-Term Load Forecasting using Fine-Grained Data -- Functional State Space Models -- Forecasting Daily Peak Demand using GAMs -- Forecasting During the Lockdown Period.

Sommario/riassunto

This monograph explores a set of statistical and machine learning tools that can be effectively utilized for applied data analysis in the context of electricity load forecasting. Drawing on their substantial research and experience with forecasting electricity demand in industrial settings, the authors guide readers through several modern forecasting methods and tools from both industrial and applied perspectives – generalized additive models (GAMs), probabilistic GAMs, functional time series and wavelets, random forests, aggregation of experts, and mixed effects models. A collection of case studies based on sizable high-resolution datasets, together with relevant R packages, then illustrate the implementation of these techniques. Five real datasets at three different levels of aggregation (nation-wide, region-wide, or individual) from four different countries (UK, France, Ireland, and the USA) are utilized to study five problems: short-term point-wise forecasting, selection of relevant variables for prediction, construction of prediction bands, peak demand prediction, and use of individual consumer data. This text is intended for practitioners, researchers, and post-graduate students working on electricity load forecasting; it may also be of interest to applied academics or scientists wanting to learn about cutting-edge forecasting tools for application in other areas. Readers are assumed to be familiar with standard statistical concepts such as random variables, probability density functions, and expected values, and to possess some minimal modeling experience.