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	Titolo	Design for Thermal Stresses [[electronic resource]]
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	Descrizione fisica	1 online resource (530 p.)
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	Altri autori (Persone)	BarronBrian R
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	Soggetti	Science -- Dynamics
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		SCIENCE / Mechanics / Dynamics / Thermodynamics
		Thermal stresses
		Civil & Environmental Engineering
		Engineering & Applied Sciences
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	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
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	Note generali	Description based upon print version of record.
	Nota di contenuto	Design for Thermalstresses; Contents; Preface; Nomenclature; 1 Introduction; 1.1 Definition of Thermal Stress; 1.2 Thermal-Mechanical Design; 1.3 Factor of Safety in Design; 1.4 Thermal Expansion Coefficient; 1.5 Young's Modulus; 1.6 Poisson's Ratio; 1.7 Other Elastic Moduli; 1.8 Thermal Diffusivity; 1.9 Thermal Shock Parameters; 1.10 Historical Note; Problems; References; 2 Thermal Stresses in Bars; 2.1 Stress and Strain; 2.2 Bar between Two Supports; 2.3 Bars in Parallel; 2.4 Bars with Partial Removal of Constraints; 2.5 Nonuniform Temperature Distribution; 2.6 Historical Note; Problems

| Sommario/riassunto | The tools engineers need for effective thermal stress design Thermal stress concerns arise in many engineering situations, from aerospace structures to nuclear fuel rods to concrete highway slabs on a hot summer day. Having the tools to understand and alleviate these potential stresses is key for engineers in effectively executing a wide range of modern design tasks. Design for Thermal Stresses provides an accessible and balanced resource geared towards real-world applications. Presenting both the analysis and synthesis needed for accurate design, the book emphasizes key principles, |

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   Soggetti   Information science
                       Documentation
                       Library science
                       Information services
                       Information storage and retrieval systems
                       Library Science
                       Information Services
                       Information Science
                       Systemes d'information
                       Services d'information
                       Sciences de l'information
                       Bibliotheconomie
                       library science
                       documentation (activity)
                       Library & Information Science
                       Periodicals.

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