1.	Record Nr.	UNINA9910366605403321
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	Titolo	Partial Differential Equations of Classical Structural Members : A Consistent Approach / / by Andreas Öchsner
	Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
	ISBN	3-030-35311-7
	Edizione	[1st ed. 2020.]
	Descrizione fisica	1 online resource (VIII, 92 p. 75 illus., 28 illus. in color.)
	Collana	SpringerBriefs in Continuum Mechanics, , 2625-1337
	Disciplina	531 515.353
	Soggetti	Mechanics Differential equations Mechanics, Applied Solids Classical Mechanics Differential Equations Solid Mechanics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Nota di contenuto	Introduction to structural modeling -- Rods or bars -- Euler-Bernoulli beams -- Timoshenko beams -- Plane members -- Classical plates -- Shear deformable plates -- Three-dimensional solids -- Introduction to transient problems: Rods or bars.
	Sommario/riassunto	The derivation and understanding of Partial Differential Equations relies heavily on the fundamental knowledge of the first years of scientific education, i.e., higher mathematics, physics, materials science, applied mechanics, design, and programming skills. Thus, it is a challenging topic for prospective engineers and scientists. This volume provides a compact overview on the classical Partial Differential Equations of structural members in mechanics. It offers a formal way to uniformly describe these equations. All derivations follow a common approach: the three fundamental equations of continuum mechanics, i.e., the kinematics equation, the constitutive equation, and the equilibrium equation, are combined to construct the partial differential equations. .