

1. Record Nr.	UNICAMPANIAVAN00264302
Autore	Gallot, Sylvestre
Titolo	Riemannian geometry / Sylvestre Gallot, Dominique Hulin, Jacques Lafontaine
Pubbl/distr/stampa	Berlin, : Springer-Verlag, 1987
Titolo uniforme	Riemannian geometry
Descrizione fisica	xi, 248 p. : ill. ; 24 cm
Altri autori (Persone)	Hulin, Dominique Lafontaine, Jacques
Soggetti	53-XX - Differential geometry [MSC 2020] 53B20 - Local Riemannian geometry [MSC 2020] 53C20 - Global Riemannian geometry, including pinching [MSC 2020] 58-XX - Global analysis, analysis on manifolds [MSC 2020] 58J60 - Relations of PDEs with special manifold structures (Riemannian, Finsler, etc.) [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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2. Record Nr.	UNINA9910576886203321
Autore	Zimmermann Richard
Titolo	Mechanisms of ER Protein Import
Pubbl/distr/stampa	Basel, : MDPI - Multidisciplinary Digital Publishing Institute, 2022
Descrizione fisica	1 online resource (258 p.)
Soggetti	Biology, life sciences Research and information: general
Lingua di pubblicazione	Inglese
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Sommario/riassunto	<p>Protein import into the endoplasmic reticulum (ER) is the first step in the biogenesis of approximately 10,000 different soluble and membrane proteins of human cells, which amounts to about 30% of the proteome. Most of these proteins fulfill their functions either in the membrane or lumen of the ER plus the nuclear envelope, in one of the organelles of the pathways for endo- and exocytosis (ERGIC, Golgi apparatus, endosome, lysosome, and trafficking vesicles), or at the cell surface as plasma membrane or secreted proteins. An increasing number of membrane proteins destined to lipid droplets, peroxisomes or mitochondria are first targeted to and inserted into the ER membrane prior to their integration into budding lipid droplets or peroxisomes or prior to their delivery to mitochondria via the ER-SURF pathway. ER protein import involves two stages, ER targeting, which guarantees membrane specificity, and the insertion of nascent membrane proteins into or translocation of soluble precursor polypeptides across the ER membrane. In most cases, both processes depend on amino-terminal signal peptides or transmembrane helices, which serve as signal peptide equivalents. However, the targeting reaction can also involve the ER targeting of specific mRNAs or ribosome-nascent chain complexes. Both processes may occur co- or post-translationally and are facilitated by various sophisticated machineries, which reside in the cytosol and the ER membrane,</p>

respectively. Except for resident ER and mitochondrial membrane proteins, the mature proteins are delivered to their functional locations by vesicular transport.
