$$\begin{array}{c} (2) \quad p: \widehat{X} \longrightarrow X \quad \text{civestimento} \\ X_0 \subseteq X \\ \widehat{X}_0 = p^{-1}(X_0) \end{array} \right\} = > p|_{\widetilde{X}_0}: \widetilde{X}_0 \longrightarrow X_0 \quad \text{civestimento}$$

$$p: \widetilde{X} \rightarrow X$$
 rivest

①
$$p$$
 surjettiva $\Longrightarrow p(\tilde{x}) = X$

$$\begin{cases} \rho^{-1}(U) = \bigcup_{j \in \mathcal{J}} \widetilde{U}_{j} \\ \widetilde{U}_{j} \cap \widetilde{U}_{k} = \emptyset, \ \forall j, k \in \mathcal{J}, \ j \neq k \end{cases}$$

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$$\begin{cases} \rho^{-1}(U) = \bigcup_{j \in \mathcal{J}} \widetilde{U}_{j} \\ \widetilde{U}_{j} \cap \widetilde{U}_{k} = \emptyset, \ \forall j, k \in \mathcal{J}, \ j \neq k \end{cases}$$

$$p$$
 societtiva $<=> p(p^{-1}(X)) = X$

$$X_{o} \subseteq X$$
 $\widetilde{X}_{o} = p^{-1}(X_{o})$
 $\Rightarrow p|_{\widetilde{X}_{o}} \text{ succettive}$
 $\Rightarrow p|_{\widetilde{X}_{o}} \text{ succettive}$

$$\Rightarrow \forall x. \in X$$
, $\exists V \subseteq X$, aperto, $\forall \exists x. \land \exists \{\widetilde{V}_i\}_{i \in I} \subseteq \widetilde{X}_o \text{ aperti} \}$

$$\int_{0}^{\infty} \rho^{-1}(V) = \bigcup_{i \in \mathcal{I}} V_{i}$$