

1. Record Nr.	UNINA9910828918603321
Autore	Tu Loring W.
Titolo	Hodge theory and the local Torelli problem / / Loring W. Tu
Pubbl/distr/stampa	Providence, Rhode Island : , : American Mathematical Society, , [1983] ©1983
ISBN	1-4704-0689-6
Descrizione fisica	1 online resource (72 p.)
Collana	Memoirs of the American Mathematical Society, , 0065-9266 ; ; number 279
Disciplina	510 s 516.3/52
Soggetti	Curves, Algebraic Surfaces, Algebraic Hodge theory Torelli theorem
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di bibliografia	Bibliography: pages 55-56.
Nota di contenuto	""Table of Contents""; ""Introduction""; ""I. Variation of Hodge structure""; ""A1. The period map""; ""A2. The Hodge bundles in the smooth case""; ""A3. The Hodge bundles when there are singular fibers""; ""The log complex""; ""Relative dualizing sheaf""; ""The canonical extension""; ""A4. A multiplicative formula for the holomorphic Euler characteristic""; ""A5. Monodromy""; ""A6. Mixed Hodge structures and the numerical invariants of a degeneration""; ""6.1. Varieties with normal crossings""; ""6.2. The limiting mixed Hodge structure""; ""6.3. The Clemens-Schmid exact sequence""; ""6.4. Genus of a singular curve""""II. Local Torelli for curves""; ""A7. The case of no singular fibers""; ""A8. With singular fibers""; ""8.1. First proof: mixed Hodge structure and the topology of the singular fiber""; ""8.2. Second proof: using the relative dualizing sheaf to map X into a projective space""; ""8.3. Third proof: the ample cone on the moduli space M""; ""III. Local Torelli in higher dimensions""; ""A9. Surfaces with large irregularity""; ""A10. Threefolds and fourfolds with large irregularity""; ""Bibliography""; ""List of Notations""; ""Index""; ""A""; ""B""; ""C""

""D""""E""", ""F""", ""G""", ""H""", ""I""", ""K""", ""L""", ""M""", ""N""", ""P""", ""Q"";
""R""", ""S""", ""T""", ""U""", ""V""", ""W""", ""Y""
