1. Record Nr. UNINA9910788609903321 Autore Persson Ulf <1950-> Titolo On degenerations of algebraic surfaces // Ulf Persson Pubbl/distr/stampa Providence:,: American Mathematical Society,, [1977] ©1977 **ISBN** 1-4704-0103-7 1 online resource (163 p.) Descrizione fisica Memoirs of the American Mathematical Society;; number 189 Collana Disciplina 512/.33 Soggetti Surfaces, Algebraic - Degenerations Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. ""Table of Contents""; ""Introduction""; ""I. A brief survey of the Nota di contenuto structure and classification of surfaces""; ""Ruled surfaces""; ""Elliptic surfaces""; ""The classification table of surfaces""; ""II. The structure of a degeneration""; ""1. The singular fiber""; ""2. The local behavior near the singular fiber""; ""3. The global structure of N close to N[sub(0)]""; ""4. Intersection theory on N and its applications""; ""5. The Mayer-Vietoris spectral sequence, and the calculations of the Betti numbers of the general fiber in terms of the special""; ""6. Projective Degenerations"" ""7. Mixed Hodge structures and the Clemens-Schmid exact sequence""""III. Degenerations of surfaces""; ""1. Specializations of birational isomorphisms and some of its applications""; ""2. Degenerations of elliptic surfaces""; ""3. Degenerations of minimal N = 0 surfaces in the case of no triple points"; ""IV. Lemmas on Curves on Surfaces""; ""V. Deformations of two surfaces meeting along a nonsingular curve""; ""1. C is rational""; ""2. C is nonrational""; ""Bibliography""; ""Appendix 1. Elementary examples of degenerations""; ""Appendix 2. A degeneration of Enriques surfaces"" ""Appendix 3. A degeneration of Godeaux surfaces"""Appendix 4. The index of cruciality for elliptic curves in elliptic ruled surfaces""; ""Bibliography of the appendix""; ""List of symbols and notational

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