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normal closure

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Author scanez (1021) Entry type Definition Classification msc 12F10 Let K be an extension field of F. A normal closure of K/F is a field $L\supseteq K$ that is a normal extension of F and is minimal in that respect, i.e. no proper subfield of L containing K is normal over F. If K is an algebraic extension of F, then a normal closure for K/F exists and is unique up to isomorphism.