Large noise limit of SDE's

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We show that the Pesin entropy formula for Sinai-Ruelle-Bowen (SRB) measures given by inducing schemes is valid whenever the entropy of the measure is finite. We apply this result to some classes of dynamical systems with singular sets for which the classical results by Ruelle and Pesin cannot be applied. We also present an example of a system with an SRB measure given by an inducing scheme for which Ruelle inequality does not hold.