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efficiency is calculated by taking the ratio of actual performance of a process to the ideal (isentropic) performance. The formula for its calculation depends on the type of machine, for example, for a turbine, it's actual work output divided by isentropic work output. What is the isentropic efficiency of a turbine? Write in UK English. Isentropic efficiency of a turbine is a performance measure that compares the actual work output of the turbine to the work output if the process was isentropic (reversible and adiabatic). Higher isentropic efficiency means the turbine is closer to the ideal performance. Save Article Access over 700 million learning materials Study more efficiently with flashcards Get better grades with AI Sign up for free Already have an account? Log in Good job! Keep learning, you are doing great. Don't give up! Next Open in our app At StudySmarter, we have created a learning platform that serves millions of students. Meet the people who work hard to deliver fact based content as well as making sure it is verified. Lily Hulatt is a Digital Content Specialist with over three years of experience in content strategy and curriculum design. She gained her PhD in English Literature from Durham University in 2022, taught in Durham Universitys English Studies Department, and has contributed to a number of publications. Lily specialises in English Literature, English Language, History, and Philosophy. Get to know Lily Gabriel Freitas is an AI Engineer with a solid experience in software development, machine learning algorithms, and generative AI, including large language models (LLMs) applications. Graduated in Electrical Engineering at the University of So Paulo, he is currently pursuing an MSc in Computer Engineering at the University of Campinas, specializing in machine learning topics. Gabriel has a strong background in software engineering and has worked on projects involving computer vision, embedded AI, and LLM applications. Get to know Gabriel StudySmarter is a globally recognized educational technology company, offering a holistic learning platform designed for students of all ages and educational levels. Our platform provides learning support for a wide range of subjects, including STEM, Social Sciences, and Languages and also helps students to successfully master various tests and exams worldwide, such as GCSE, A Level, SAT, ACT, Abitur, and more. We offer an extensive library of learning materials, including interactive flashcards, comprehensive textbook solutions, and detailed explanations. The cutting-edge technology and tools we provide help students create their own learning materials. StudySmarters content is not only expert-verified but also regularly updated to ensure accuracy and relevance. Learn more Skip to main contentTechnology & EngineeringIsentropic efficiency is a measure of how effectively a process or device can convert input energy into useful work without incurring losses. It is often used in thermodynamics and fluid mechanics to assess the performance of compressors, turbines, and nozzles. A higher isentropic efficiency indicates a more efficient conversion of energy.Written by Perlego with AI-assistanceIndex pages curate the most relevant extracts from our library of academic textbooks. Theyve been created using an in-house natural language model (NLM), each adding context and meaning to key research topics.

Isentropic work. Isentropic efficiency thermodynamics. What is isentropic efficiency. What is the difference between isentropic and polytropic efficiency. What is isentropic flow. Can isentropic efficiency be greater than 1.