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**THE ROLE OF DIFFERENTIAL CALCULUS AND DIFFERENTIAL EQUATIONS IN SOLVING PRACTICAL PROBLEMS AIMED AT IMPROVING THE PROFESSIONAL TRAINING OF CIVIL ENGINEERS**

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**ABSTRACT**

*The article explores the solution of practical problems using derivative and differential equations in improving the professional training of civil engineers through a high level of teaching mathematics, which is fundamental in the field of technical education. At the same time, practical problems are given and mathematical solutions are given.*

**KEYWORDS:** *Mathematical Model, Product, Maximum And Minimum Values Of Function, Differential Equations, Equilibrium Equation, Air Exchange Equation, Heat Dissipation Intensity Of Concrete, Free Vibration Processes In Construction.*

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