



- At time t seconds, the radius of a spherical balloon is r cm. The balloon is being inflated so that the rate of increase of its radius is inversely proportional to the square root of its radius. When $t = 5$, $r = 9$ and, at this instant, the radius is increasing at 1.08 cm s^{-1} .

(i) Write down a differential equation to model this situation, and solve it to express r in terms of t . [7]

(ii) How much air is in the balloon initially? [2]

[The volume of a sphere is $V = \frac{4}{3}\pi r^3$]

$$r = \left(3 \sqrt{486t + 2.7} \right)^2$$

$$t=0$$

$$r = \left(3 \sqrt{2.7} \right)^2$$

$$r =$$

Ocr C4 June 2013 Answers

**Ying Tan, Yuhui Shi, Fernando
Buarque, Alexander
Gelbukh, Swagatam Das, Andries
Engelbrecht**

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Advances in Swarm and Computational Intelligence Ying Tan, Yuhui Shi, Fernando Buarque, Alexander Gelbukh, Swagatam Das, Andries Engelbrecht, 2015-06-01 This book and its companion volumes LNCS volumes 9140 9141 and 9142 constitute the proceedings of the 6th International Conference on Swarm Intelligence ICSI 2015 held in conjunction with the Second BRICS Congress on Computational Intelligence CCI 2015 held in Beijing China in June 2015 The 161 revised full papers presented were carefully reviewed and selected from 294 submissions The papers are organized in 28 cohesive sections covering all major topics of swarm intelligence and computational intelligence research and development such as novel swarm based optimization algorithms and applications particle swarm optimization ant colony optimization artificial bee colony algorithms evolutionary and genetic algorithms differential evolution brain storm optimization algorithm biogeography based optimization cuckoo search hybrid methods multi objective optimization multi agent systems and swarm robotics Neural networks and fuzzy methods data mining approaches information security automation control combinatorial optimization algorithms scheduling and path planning machine learning blind sources separation swarm interaction behavior parameters and system optimization neural networks evolutionary and genetic algorithms fuzzy systems forecasting algorithms classification tracking analysis simulation image and texture analysis dimension reduction system optimization segmentation and detection system machine translation virtual management and disaster analysis

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