

Fourth Edition

# Solution manual

Introduction to  
Optimum Design

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Solution

Introduction

Optimum Design



Jasbir Singh Arora



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# Introduction To Optimum Design Solutions Manual

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web example a pediatrician orders a dose of 15 mg of a drug per kilogram of body weight 15 mg kg 15 mg of drug 300 mg of drug should be given as the dose 20 kg weight x 1 kg 2 calculate volume tablets solution using a standard pharmaceutical math calculation such as desired over have multiplied by quantity or ratio and proportion see

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web dec 3 2016 example 1 a child is prescribed erythromycin the recommended dosage is 40 mg kg day 4 doses daily if the child s weight is 15 kg calculate the size of a single dose 15 kg 40 mg kg day 600 mg day then 600 mg 4 doses 150 mg dose

calculating a single dose based on body weight example 2 a child is to be given ampicillin

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web exam question on the dosage calculation based on child s age which is the most common method in paediatrics and

which ensures right dosages and drug dilution was answered correctly by 87 1 of the students while 9 5 answered it wrong

and 3 4 left it blank 69 6 of the students was successful in finding the safe dose range and 79 1 in

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web 1g 1000mg 1mg 1000mcg therefore to convert grams to milligrams you multiply by 1000 milligrams to micrograms

multiply by 1000 conversely to change from micrograms to milligrams divide by 1000 and milligrams to grams divide by 1000

thus to multiply by 1000 the decimal point must be moved 3 places to the right example

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method of computing dosages uses the child s weight weight in kilograms the child s weight in kilograms is used to calculate

a safe dose range for the child converting pounds to kilograms

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web stage 1 using the formula below calculate the total required dosage based on given the body weight weight kg x dosage

ordered per kg y required dosage stage 2 apply the x q formula to calculate the actual amount of medication to be

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within a certain time period this is the fundamental formula for all iv problems managing fractions and decimals what do you

do if the flow rate calculation involves fractions such as  $\frac{1}{4}$  of an hour or 0 5 litres

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dosing as either mg kg day

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