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Treatment  
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Treatment  
Design  
Calculations**

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Lecture 50: Alternate  
Wastewater

Treatment Systems:  
SBR and SBBR

Sewage Treatment  
Plant Design

Calculation / Capacity

|| English Version

*SEQUENCING  
BATCH REACTOR  
(SBR) FOR  
WASTEWATER  
TREATMENT ||*

*Wastewater treatment*

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*technology*

Sequencing Batch  
Reactor

---

Water treatment plant  
design for Ranipur

City - Calculations I

Design Criteria I

Design Parameters

Sequencing Batch

Reactor (SBR) -

Parkson's EcoCycle

*Design of Screening*

*Unit in Sewage*

*Treatment Plant*

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*Wastewater*

*Treatment Software :  
SBR Modelling and  
Simulation with*

*ASM3+Bio-P Model-  
PART 2 Sewage*

*Estimation (Topic 6  
Module 2)|| STP*

*Capacity calculation ||  
WWTP Math EcoSBR  
from EcoTec*

*Advanced sequence  
batch reactor based  
treatment for sewage*

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*and wastewater*

---

Lecture 25:

Wastewater

Treatment Units: Grit

Removal and

Equalization

*SEQUENTIAL*

*BATCH REACTOR*

*(SBR) FOR*

*WASTEWATER*

*TREATMENT* **How**

**Do Wastewater**

**Treatment Plants**

**Work? Waste Water**



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Treatment-SCADA -  
Plant-IQ *How Do  
Water Treatment  
Plants Work?*

**Activated sludge  
process and IFAS -  
Design rules +  
guideline** Sewage  
Treatment Plant  
Animation

---

Sequencing batch  
reactors in  
wastewater treatment  
plant

---

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SBR Animation

*Nitrogen Removal*

*Basics Flocculation*

Basin Design

Example MBBR

Treatment

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Math for Water and  
wastewater treatment

|| Wastewater

treatment calculation

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Concept Selection in  
Wastewater

Treatment Plant

Design Using

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~~Treatment Hierarchy~~

~~Process Designing~~

~~calculation of flash  
mixer and flocculator~~

~~|| Water and~~

~~wastewater treatment~~

~~calculation Oxygen~~

~~*transfer rate in*~~

~~*Wastewater treatment*~~

~~*- calculation example*~~

~~Membrane Bioreactor~~

~~(MBR) Process~~

~~Animation || MBR~~

~~working animation FM~~

# Acces PDF Sbr Wastewater

~~Ratio Calculation ||~~

~~Aeration tank design ||~~

~~MLSS MLVSS FM~~

~~RATIO Mod 01~~

~~Lec 10 Design of~~

~~Batch reactors Part I~~

~~SBR design~~

~~calculation **Sbr**~~

**Wastewater**

**Treatment Design**

**Calculations**

Design Calculations

PE Qdwf ( $m^3/d$ ) p

Peak flow coefficient

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Qpeak (m<sup>3</sup>/d) BODin  
(kg/d) Ssin (kg/d) TKN  
Nox. 10,000 (PE X  
0.225) PE/1000 4.7 x  
p<sup>(-0.11)</sup> Qdwf x pfc  
(Qdwf x 1000 x 250  
mg/L)/1,000,000 kg  
(Qdwf x 1000 x 300  
mg/L)/1,000,000kg.  
2250 (m<sup>3</sup>/d) 10  
3.4892 7851 562.5  
675 50 40. 80% of  
TKN

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## Design Calculations | Environmental Science | Water And Calculations ...

waters and waste  
water treatment.

- These rules are the  
base of the current  
laws in this field

TECHNICAL  
CALCULATION FOR  
PURIFING WASTE  
WATER FOR A SBR  
WASTE WATER

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## TREATMENT PLANT

Content: 1.

Calculation of SBR -

volume 2. Rating of

reactors 3. BOD5 -

calculation of load 4.

BOD5 - calculation of

sludge 5. Calculation

of aeration 6.

## **SBR PROCESS FOR WASTEWATER TREATMENT**

Sequencing Batch

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Reactor Design and  
Operational

Considerations iv T  
his document is

designed to be used  
by municipalities,  
engineers, regulators,  
operators, and other  
interested parties that  
use, design, or are  
thinking about  
implementing  
sequencing batch  
reactor (SBR)



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treatment  
systems. This  
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Calculations

## **SEQUENCING BATCH REACTOR DESIGN AND OPERATIONAL CONSIDERATIONS**

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by guest. through  
calculations for  
deciding on times for  
each part of the SBR  
cycle, tank number  
and size, and checks  
on the adequacy of  
the design.

Engineering Excel  
Templates Blog This  
Excel spreadsheet  
bundle include  
process design  
calculations for MBBR

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Treatment  
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processes, MBR  
wastewater treatment  
processed, SBR  
wastewater treatment  
processes.

## **Sbr Wastewater Treatment Design Calculations | elearning.ala**

The Sequencing  
Batch Reactor Design  
Calculation excel

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spreadsheet partially shown in the image below can be used to make a variety of design calculations for an SBR wastewater treatment system.

Based on input information about the wastewater flow rate and characteristics, as well as the treatment objectives, the spreadsheet leads

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the user through calculations for deciding on times for each part of the SBR cycle, tank number and size, and checks on the adequacy of the design.

## **Sequencing Batch Reactor Design Calculation Spreadsheet**

4 - Wastewater



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Temperature = 20 °C:

13 - Liquid depth of

SBR = 6.60 m: 5 -

Hydraulic detention

time = 24 h: 14 -

Sludge wasting is

done once a week: 6 -

F/M = 0.1 kg BOD 5

/kg MLVSS.day: 15 -

65 % of effluent is

biodegradable: 7 -

MLVSS/MLSS = 0.80:

16 - BOD 5 = 0.68

BOD L: 8 - Y = 0.65

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kg/kg: 17 - BOD L of  
one mole cells = 1.42  
times of X: 9 - k d =  
0.05 1/day

## **Design Examples - Dokuz Eylül University**

continuous inflow.

The design  
configurations of the  
ICEAS and the SBR  
are otherwise very  
similar. Description of

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a Wastewater  
Treatment Plant  
Using an SBR A  
typical process flow  
schematic for a  
municipal wastewater  
treatment plant using  
an SBR is shown in  
Figure 1. Influent  
wastewater generally  
passes through  
screens and grit  
removal prior to ...

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## Wastewater Technology Fact Sheet: Sequencing Batch Reactors

If you don't have BOD data, you can use your COD data and a COD/BOD ratio of 2.1 as a starting point.

Use the 2.1 ratio value with caution though as it is highly variable from one wastewater system to

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another. The equation below assumes you also don't have MLVSS data so you can use your MLSS data estimating that the MLVSS is 72% of the MLSS.

## **Just the Formulas - Wastewater Treatment**

Design for Wuhan  
Green sewage

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Treatment plant using  
SBR activated sludge pro-  
cess 34 Degree  
Bachelor of Engineerin-  
g ... to Pollutant  
Discharge Standard  
for Urban Wastewater  
Treatment Plan (GB18  
918-2012), He  
Xinghai, 2012, the  
sewage treatment  
plant should ... policy  
and Sewage  
treatment of new

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Technology and  
design calculation

Design

Calculations

## **Design for Wuhan Green sewage treatment ...**

with smaller  
wastewater plants in  
mind, it needs to be  
borne in mind that  
much of the  
information and  
design calculations  
are applicable to

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Treatment  
Design  
Calculations

much larger plants and not confined to works of 5 Ml/d or less. Many larger plants have been built in stages over extended periods of time, resulting in plants consisting of a

## **Process Design Manual For Small Wastewater Works**

Activated sludge



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Waste water treatment calculations are made easy in U.S. or S.I. units with the Excel spreadsheets that can be downloaded through links in this article. The Excel formulas use parameters like biochemical oxygen demand (BOD), waste water flow rates, and total suspended solids

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concentrations to  
make activated  
sludge aeration tank  
design and operation  
calculations.

## **Activated Sludge Waste Water Treatment Calculations with ...**

These Excel  
spreadsheet bundles  
include process  
design calculations for

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MBBR wastewater  
treatment processes,  
MBR wastewater  
treatment processes,  
SBR wastewater  
treatment processes,  
activated sludge  
design calculations,  
and several other  
wastewater treatment  
processes. These  
Excel spreadsheets  
are available in either  
U.S. units or S.I.

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units.

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Treatment

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Alternate

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SBR ...**

The AquaSBR®  
sequencing batch  
reactor provides true  
batch reactor  
technology with all  
phases of biological  
treatment

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Treatment accomplished in a single reactor. All components are easily accessible and the advanced decant system ensures optimum quality effluent withdrawal. Optimize biological treatment of the AquaSBR system with the IntelliPro® Monitoring and Control System

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