

NAVIGAT X Mk1



KONGSBERG

Digital Gyrocompass System

The NAVIGAT X Mk 1 is a microprocessor controlled gyrocompass system with integrated automatic north speed error correction.

Features

- Comprises one single unit
- Control and display unit in front cover with 4-digit heading display and operating keys
- Ease to install and ease to service
- High-speed-follows-up system 100° /sec.
- Rate-of-turn output
- Automatic static north speed error correction
- Integrated TMC (Transmitting Magnetic Compass) interface
- Compass monitoring function
- Highly accurate digital heading transmission by shaft encoder
- Self-synchronizing repeater compasses
- +/- 180° alignment error correction in set-up program
- Will drive up to 12 analogue repeaters
- 7 independent serial outputs RS422 and NMEA 1083
- 2 independent, 6 steps per degree, heading outputs
- Outputs to voyage data printer
- Intensive to horizontal acceleration
- Twin rotors and liquid damping system eliminate latitude errors
- Gyro system remains north stabilized during power interrupts for up to 3 minutes
- Monitoring and alarm function for all voltages, gyroscopes and follow-up system



Description

The high speed NAVIGAT X Mk 1 is a microprocessor controlled gyrocompass system with integrated automatic north speed error correction.

The unique method of supporting the gyrosphere by means of mere buoyancy ensures north stabilization during short power interruptions. No more than 2° error may be expected after a loss of power for 3 minutes and once the power is restored, the correct heading will be achieved without the normal settling period. This combined with twin rotors virtually eliminates error in latitude.

The gyrocompass provides 12 independent serial data outputs to analogue or digital repeaters.

Integrated monitoring and alarm functions for the power supply, gyroscope temperature and current and the follow-up system ensure secure and trouble-free system operation.

The single unit design with low-weight hard polyurethane foam housing allows the gyro-compass to be installed on any bridge.

An optional switch-over unit for twin gyrocompasses provides for complete redundancy of all input and output signals and thus ensures the independence of the individual compasses.

Navigat Mk1 Gyro Manual

Huangqi Zhang



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for the nitration 4 01 ml of nitric acid 4 00 ml of sulfuric acid and 4 56 ml bromobenzene were used to complete the reaction with these measurements bromobenzene was found to be the limiting reagent since only 4 56 ml of bromobenzene was used the amount of product predicted to be recovered was 8 7533 g

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the aim of the experiment is to determine and study electrophilic aromatic substitution reaction eas particularly nitration of methyl benzoate go give methyl m nitrobenzoate thus determine the weight melting point and percentage yield of the pure methyl m nitrobenzoate abstract

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in this experiment we will carry out the nitration of bromobenzene bromine substituted on an aromatic ring is an ortho para directing group it will direct an incoming electrophile to the ortho and para positions it is also deactivating meaning that its reactions will be slower than the identical reactions of benzene

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section 20711 lab experiment nitration of bromobenzene introduction the chemical reaction of nitration consists of a nitro group being added to or substituted in a molecule nitration can basically be carried out by a mixture of concentrated nitric acid and sulfuric acid this mixture is useful to obtain the active nitronium ion

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in the nitration of bromobenzene a mixture of sulfuric acid and nitric acid react with one another nitric acid the weaker of the two acids will serve as base to form nitronium ion bromobenzene will attack the nitronium ion by nucleophilic attack

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then actual is your actual findings yield actual theoretical $\times 100$ what are the possible side reactions of nitration of bromobenzene dinitration can occur at ortho para or at both ortho positions occurs in overheating meta product happens very rarely becuase bromine is an ortho para director

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the soap in the lab is not suitable for this purpose 2 return to the lab and apply mineral oil to the affected area theory and explanation of the nitration of bromobenzene if the temperature of the reaction mixture exceeds 60 o

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the bromine substituent in bromobenzene is an ortho para director the para position is favored due to steric effects in the reaction that takes place in this lab a nitro group is substituted onto bromobenzene at the para position to form 1 bromo 4 nitrobenzene

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study with quizlet and memorize flashcards containing terms like reacting sulfuric and nitric acid together produces the nitronium ion alone nitric acid is not a strong enough electrophile to react with bromobenzene sulfuric acid is added to the nitric acid the reverse rxn can overheat and boil easily includes a claisen adaptor and

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over 5 minutes slowly pipet this bromobenzene into the icy cold nitration mixture hno 3 h 2 so 4 in the 125 ml flask and stir continue to stir the reaction mixture in the ice bath for 30 minutes do not heat in a new 250 ml erlenmeyer

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on the right the arenium cation has a nitro set with incredibly small 0 6 angstrom bond distances this will result in an optimization failure as the atoms are even close for the programme to accomodate their electrons demonstration of creating the p arenium cation by to nitration of bromobenzene

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nitrobromobenzene recrystallization was used to purify 4 nitrobromobenzene

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the purpose of this lab was to observe where substituents are added on a benzene ring by way of electrophilic aromatic substitution the electrophilic source in the nitration of bromobenzene comes from a nitronium ion no2 which acts as the electrophilic species

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nitration of bromobenzene is an electrophilic aromatic substitution reaction the electrophile will be formed from 4 0ml of

nitric acid and 4 Oml of sulfuric acid and will then react with 4 5ml of bromobenzene this will produce o bromonitrobenzene and p bromonitrobenzene

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experimental spectra reaction a fluorobenzene stock fluorobenzene 1 h 1 h 19 f 19 f 13 c nmr fid for reference only sample 1 h 1 h 19 f 19 f 13 c nmr eas nitration of fluorobenzene crude product not available for submission for credit

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lab report 10 nitration of bromobenzene raekwon filmore cm 244 section 40 march 27 2018 introduction for this experiment nitration of bromobenzene was the focus of the lab the benzene is an aromatic compound and when it reacts with wither a mixture of sulfuric acid or nitric acid creates what is known as a nitro group

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web getaran dan gelombang dalam dokumen hubungan motivasi belajar dan persepsi siswa terhadap fisika dengan hasil belajar fisika halaman 34 39 bab ii landasan teori a kajian teori 4 getaran dan gelombang a getaran getaran adalah gerak bolak balik periodik melalui titik kesetimbangan

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web gelombang adalah getaran yang merambat getaran dan gelombang merupakan dua hal yang tidak dapat dipisahkan dalam kehidupan sehari hari tentu kita telah mengenal istilah gelombang seperti gelombang air laut gelombang tsunami gelombang radio dan sebagainya apa yang dimaksud dengan gelombang

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web satu getaran adalah gerakan benda dari suatu titik awal a kembali ke titik semula simpangan adalah jarak antara benda bergerak dengan titik kesetimbangan amplitudo adalah simpangan terjauh gelombang adalah getaran yang merambat dengan membawa energi frekuensi adalah jumlah getaran dalam satu detik $f = \frac{1}{T}$ frekuensi hertz

