

NEW
**BETTAS, GOLDFISHES
AND OTHER ANABANTIDS**
LIGHTNING FISHES OF THE WORLD
JERRY STROBE



OVER 100 FULL-COLOR ILLUSTRATIONS

Gouramis And Other Anabantoids

Yi-Tong Ma



Gouramis And Other Anabantoids:

Immerse yourself in the artistry of words with Crafted by is expressive creation, Discover the Artistry of **Gouramis And Other Anabantoids** . This ebook, presented in a PDF format (*), is a masterpiece that goes beyond conventional storytelling. Indulge your senses in prose, poetry, and knowledge. Download now to let the beauty of literature and artistry envelop your mind in a unique and expressive way.

http://industrialmatting.com/files/publication/fetch.php/hd_selected_poems.pdf

Table of Contents Gouramis And Other Anabantoids

1. Understanding the eBook Gouramis And Other Anabantoids
 - The Rise of Digital Reading Gouramis And Other Anabantoids
 - Advantages of eBooks Over Traditional Books
2. Identifying Gouramis And Other Anabantoids
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Gouramis And Other Anabantoids
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gouramis And Other Anabantoids
 - Personalized Recommendations
 - Gouramis And Other Anabantoids User Reviews and Ratings
 - Gouramis And Other Anabantoids and Bestseller Lists
5. Accessing Gouramis And Other Anabantoids Free and Paid eBooks
 - Gouramis And Other Anabantoids Public Domain eBooks
 - Gouramis And Other Anabantoids eBook Subscription Services
 - Gouramis And Other Anabantoids Budget-Friendly Options

6. Navigating Gouramis And Other Anabantoids eBook Formats
 - ePub, PDF, MOBI, and More
 - Gouramis And Other Anabantoids Compatibility with Devices
 - Gouramis And Other Anabantoids Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gouramis And Other Anabantoids
 - Highlighting and Note-Taking Gouramis And Other Anabantoids
 - Interactive Elements Gouramis And Other Anabantoids
8. Staying Engaged with Gouramis And Other Anabantoids
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gouramis And Other Anabantoids
9. Balancing eBooks and Physical Books Gouramis And Other Anabantoids
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gouramis And Other Anabantoids
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gouramis And Other Anabantoids
 - Setting Reading Goals Gouramis And Other Anabantoids
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gouramis And Other Anabantoids
 - Fact-Checking eBook Content of Gouramis And Other Anabantoids
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

Gouramis And Other Anabantoids Introduction

In the digital age, access to information has become easier than ever before. The ability to download Gouramis And Other Anabantoids has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Gouramis And Other Anabantoids has opened up a world of possibilities. Downloading Gouramis And Other Anabantoids provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Gouramis And Other Anabantoids has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Gouramis And Other Anabantoids. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Gouramis And Other Anabantoids. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Gouramis And Other Anabantoids, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites they are downloading from. In conclusion, the ability to download Gouramis And Other Anabantoids has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available

and embark on a journey of continuous learning and intellectual growth.

FAQs About Gouramis And Other Anabantoids Books

What is a Gouramis And Other Anabantoids PDF? A PDF (Portable Document Format) is a file format developed by Adobe that preserves the layout and formatting of a document, regardless of the software, hardware, or operating system used to view or print it. **How do I create a Gouramis And Other Anabantoids PDF?** There are several ways to create a PDF: Use software like Adobe Acrobat, Microsoft Word, or Google Docs, which often have built-in PDF creation tools. Print to PDF: Many applications and operating systems have a "Print to PDF" option that allows you to save a document as a PDF file instead of printing it on paper. Online converters: There are various online tools that can convert different file types to PDF. **How do I edit a Gouramis And Other Anabantoids PDF?** Editing a PDF can be done with software like Adobe Acrobat, which allows direct editing of text, images, and other elements within the PDF. Some free tools, like PDFescape or Smallpdf, also offer basic editing capabilities. **How do I convert a Gouramis And Other Anabantoids PDF to another file format?** There are multiple ways to convert a PDF to another format: Use online converters like Smallpdf, Zamzar, or Adobe Acrobats export feature to convert PDFs to formats like Word, Excel, JPEG, etc. Software like Adobe Acrobat, Microsoft Word, or other PDF editors may have options to export or save PDFs in different formats. **How do I password-protect a Gouramis And Other Anabantoids PDF?** Most PDF editing software allows you to add password protection. In Adobe Acrobat, for instance, you can go to "File" -> "Properties" -> "Security" to set a password to restrict access or editing capabilities. Are there any free alternatives to Adobe Acrobat for working with PDFs? Yes, there are many free alternatives for working with PDFs, such as: LibreOffice: Offers PDF editing features. PDFsam: Allows splitting, merging, and editing PDFs. Foxit Reader: Provides basic PDF viewing and editing capabilities. How do I compress a PDF file? You can use online tools like Smallpdf, ILovePDF, or desktop software like Adobe Acrobat to compress PDF files without significant quality loss. Compression reduces the file size, making it easier to share and download. Can I fill out forms in a PDF file? Yes, most PDF viewers/editors like Adobe Acrobat, Preview (on Mac), or various online tools allow you to fill out forms in PDF files by selecting text fields and entering information. Are there any restrictions when working with PDFs? Some PDFs might have restrictions set by their creator, such as password protection, editing restrictions, or print restrictions. Breaking these restrictions might require specific software or tools, which may or may not be legal depending on the circumstances and local laws.

Find Gouramis And Other Anabantoids :

~~hd selected poems~~

he who gets slapped a play in four acts

he shall be called 150 names of jesus and what they mean to you

~~healing voice~~

healing for horses

healing sleep physician within self

health care supervisor on productivity

hay k nnadatut yun

~~hawksmoors london churches architecture and theology~~

head dietitian passbooks for civil service examinations

~~headpreb 18 headpreb 18 the agony and the ecstasy of underground culture~~

hazard form & value.

~~headhunting in the solomon islands around the coral sea paperback by~~

head over heels 18 sweet valley high no 18

head over the heels

Gouramis And Other Anabantoids :

star stuff carl sagan and the mysteries of the cosmos - Jul 03 2022

web oct 14 2014 star stuff carl sagan and the mysteries of the cosmos kindle edition by sisson stephanie roth roth sisson stephanie download it once and read it on your kindle device pc phones or tablets use features like bookmarks note taking and highlighting while reading star stuff carl sagan and the mysteries of the cosmos

star stuff carl sagan and the mysteries of the cosmos - Apr 12 2023

web star stuff carl sagan and the mysteries of the cosmos roth sisson stephan amazon com tr kitap

star stuff carl sagan and the mysteries of the cosmos 2016 - May 01 2022

web star stuff carl sagan and the mysteries of the cosmos details full cast and crew release dates official sites company credits filming production technical specs

star stuff carl sagan and the mysteries of the cosmos from - May 13 2023

web ttpm toy reviews 529k subscribers share 5 8k views 8 years ago star stuff carl sagan and the mysteries of the cosmos

that tells the true story of carl sagan one of the world s most
star stuff carl sagan and the mysteries of the cosmos - Dec 28 2021

web for every child who has ever looked up at the stars and asked what are they comes the story of a curious boy who never
stopped wondering melissa reilly director

star stuff carl sagan and the mysteries of the cosmos 2016 imdb - Aug 04 2022

web star stuff carl sagan and the mysteries of the cosmos storyline taglines plot summary synopsis plot keywords parents
guide

star stuff carl sagan and the mysteries of the cosmos amazon co - Jul 15 2023

web buy star stuff carl sagan and the mysteries of the cosmos illustrated by roth sisson stephanie roth sisson stephanie isbn
9781596439603 from amazon s book store everyday low prices and free delivery on eligible orders

star stuff carl sagan and the mysteries of the cosmos prime - Dec 08 2022

web star stuff carl sagan and the mysteries of the cosmos when carl sagan was a young boy he went to the 1939 world s fair
and his life was changed forever from that day on he never stopped marveling at the universe and seeking to understand it

star stuff carl sagan and the mysteries of the cosmos amazon co - Feb 10 2023

web star stuff follows carl from his days star gazing from the bedroom window of his brooklyn apartment through his love of
speculative science fiction novels to his work as an internationally renowned scientist who worked on the voyager missions
exploring the farthest reaches of space this book introduces the beloved man who brought the

star stuff a story of carl sagan youtube - Feb 27 2022

web sep 21 2016 inspired by the life and work of carl sagan star stuff is a love letter to curiosity imagination and science the
film follows young carl exploring the cos

star stuff a story of carl sagan on vimeo - Jan 29 2022

web inspired by the life and work of carl sagan star stuff is a love letter to curiosity imagination and science star stuff has
also been selected for children s film festival seattle best of the fest program which played at the following venues charming
inspiring short film a beautiful short film

star stuff carl sagan and the mysteries of the cosmos abebooks - Nov 07 2022

web star stuff carl sagan and the mysteries of the cosmos by roth sisson stephanie at abebooks co uk isbn 10 1596439602
isbn 13 9781596439603 roaring brook press 2014 hardcover

star stuff carl sagan and the mysteries of the cosmos 2016 imdb - Oct 06 2022

web star stuff carl sagan and the mysteries of the cosmos 2016 full cast crew see agents for this cast crew on imdbpro
directed by writing credits in alphabetical order stephanie sisson writer cast produced by music by scotty huff film editing by

steve syarto sound department steve syarto sound editor animation department

star stuff carl sagan and the mysteries of the cosmos - Aug 16 2023

web star stuff carl sagan and the mysteries of the cosmos directed by melissa ellard paul gagne with peter berkrot for every child who has ever looked up at the stars and asked what are they comes the story of a curious boy who never stopped wondering

star stuff carl sagan and the mysteries of the cosmos apple tv - Sep 05 2022

web comes the story of a curious boy who never stopped wondering carl sagan when carl sagan was a young boy he went to the 1939 world s fair and his life was changed forever from that day on he never stopped marveling at the

star stuff carl sagan and the mysteries of the cosmos apple - Jun 02 2022

web star stuff carl sagan and the mysteries of the cosmos documentary when carl sagan was a young boy he went to the 1939 world s fair and his life was changed forever

star stuff carl sagan and the mysteries of the cosmos - Jun 14 2023

web star stuff book read 251 reviews from the world s largest community for readers for every child who has ever looked up at the stars and asked what ar

star stuff carl sagan and the mysteries of the cosmos google - Mar 11 2023

web oct 14 2014 comes the story of a curious boy who never stopped wondering carl sagan when carl sagan was a young boy he went to the 1939 world s fair and his life was changed forever from that day on

star stuff carl sagan and the mysteries of the cosmos - Jan 09 2023

web star stuff follows carl from his days star gazing from the bedroom window of his brooklyn apartment through his love of speculative science fiction novels to his work as an internationally renowned scientist who worked on the voyager missions exploring the farthest reaches of space this book introduces the beloved man who brought the

star stuff carl sagan and the mysteries of the cosmos read aloud - Mar 31 2022

web comes the story of a curious boy who never stopped wondering carl sagan when carl sagan was a young boy he went to the 1939 world s fair and his life was changed forever from that day on

amazon fr carte michelin ile de france - Sep 04 2022

web 1 48 sur 527 résultats pour carte michelin ile de france résultats en apprendre plus sur ces résultats ajouter à la liste ajouter à la liste partager partager ile de france 2022 6 janvier 2022 4 9 sur 5 étoiles 4 9 19 carte carte zoom 106 environs de paris 2019 de michelin

carte 20 nouveaux chefs étoilés en Île de france pour le - Oct 05 2022

web jan 23 2019 dans la capitale et en région parisienne 20 restaurants ont décroché cette année leur première étoile on

fait le point sur le guide michelin 2019 côté francilien

carte ile de france michelin 2019 by michelin - Jun 13 2023

web april 27th 2020 on fait le point sur le guide michelin 2019 paris ile de france paris grand paris carte 20 nouveaux chefs étoilés en Île de France pour le guide michelin 2019 guides et cartes ile de france achat guide touristique

carte michelin Île de France plan Île de France viamichelin - Aug 15 2023

web trouvez l adresse qui vous intéresse sur la carte Île de France ou préparez un calcul d itinéraire à partir de ou vers Île de France trouvez tous les sites touristiques et les restaurants du guide michelin dans ou à proximité de Île de France

ile de France 17514 carte michelin kaart 2019 landkarte amazon de - Apr 11 2023

web ile de France 17514 carte michelin kaart 2019 michelin isbn 9782067236783 kostenloser versand für alle bücher mit versand und verkauf durch amazon

amazon fr carte de France michelin 2019 - Dec 07 2022

web amazon fr carte de France michelin 2019 sélectionnez la section dans laquelle vous souhaitez faire votre recherche

carte ile de France michelin 2019 lonely planet pdf - Jan 08 2023

web carte ile de France michelin 2019 as recognized adventure as competently as experience approximately lesson amusement as without difficulty as accord can be gotten by just checking out a book carte ile de France michelin

carte résultats présidentielle 2022 l Île de France a t elle voté - Jun 01 2022

web apr 24 2022 ce dimanche 24 avril avec 73 des suffrages les franciliens ont largement voté pour emmanuel macron découvrez les résultats de ce second tour de l élection présidentielle 2022

carte ile de France michelin 2019 by michelin reserve lasd org - Feb 26 2022

web dpartements et les villes guide de voyage le de France le guide vert michelin carte michelin itinraire carte de France guide michelin 2020 les gagnants et les perdants parmi pdf carte ile de France michelin 2019 telecharger pdf carte du sud est de la France dtaille plageiledyeu carte via michelin carte camping de France guide

ile de France 17514 carte michelin kaart 2019 amazon de - Nov 06 2022

web sorry there was a problem saving your cookie preferences try again

carte ile de France michelin 2019 by michelin - Jan 28 2022

web michelin 2019 gratuit obtenez le livre carte ile de France michelin 2019 spécial sortie de maternité au format pdf ou epub vous pouvez lire des livres en ligne ou les enregistrer

carte regionale 514 ile de France 2019 michelin - May 12 2023

web carte routière et touristique michelin trouvez bien plus que votre route indechirable la carte régionale ile de France 2019 au 1 200 000 ème 1cm 2km vous accompagne dans tous vos déplacements indication des stations services et des alertes

sécurité zones de vigilance accrue vous permettront de rouler en toute tranquillité

amazon fr carte michelin france 2019 - Jul 02 2022

web 1 48 sur 96 résultats pour carte michelin france 2019 résultats en apprendre plus sur ces résultats carte haut de france michelin 2019 de michelin 19 carte 7 30

michelin Île de france map viamichelin - Jul 14 2023

web find any address on the map of Île de france or calculate your itinerary to and from Île de france find all the tourist attractions and michelin guide restaurants in Île de france the viamichelin map of Île de france get the famous michelin maps the result of more than a century of mapping experience paris levallois perret directions

carte michelin france viamichelin - Apr 30 2022

web trouvez l adresse qui vous intéresse sur la carte france ou préparez un calcul d itinéraire à partir de ou vers france trouvez tous les sites touristiques et les restaurants du guide michelin dans ou à proximité de france le plan france viamichelin visualisez les fameuses cartes michelin riches d une expérience de plus d un siècle

carte ile de france 2023 michelin fnac - Aug 03 2022

web jan 5 2023 une carte routière et touristique michelin pour être maître de votre itinéraire mise à jour 2023 pratique et utile echelle 1 200 000 ème 1 cm 2 km format 11 3 x 0 9 x 25 cm les plus indications des stations services des aires de repos et des zones de danger déclivités parcours difficiles ou dangereux hauteurs limitées itin

carte ile de france michelin 2019 by michelin - Mar 30 2022

web île de france sur le site du guide michelin reste ouvert tout l été 2019 que faire ce week end en confinement à paris ou carte le de france plan le de france routard

amazon fr ile de france 2020 michelin livres - Feb 09 2023

web carte routière et touristique michelin trouvez bien plus que votre route indechirable la carte régionale ile de france 2020 au 1 200 000ème 1cm 2km vous accompagne dans tous vos déplacements indication des stations services et des alertes sécurité zones de vigilance accrue vous permettront de rouler en toute tranquillité

cartes plans de ville cartes routières viamichelin - Mar 10 2023

web viamichelin vous propose toutes les cartes de france de l europe et du monde cartes atlas routiers plan de centres ville cartes par adresse plans de banlieue cartes de villes retrouvez sur viamichelin la carte de la france celle de paris le plan de marseille de lyon bordeaux mais aussi la carte de nantes lille strasbourg ou

carte ile de france michelin 2019 by michelin - Dec 27 2021

web viamichelin pdf carte ile de france michelin 2019 telecharger pdf cartes de france france maps lt france map cartes regionales france carte routire collection plan des lignes du mtr rer bus et tramway ratp guide michelin 2020 les gagnants

et les perdants parmi les collections des cartes et guides touristiques de la camping de

ebook needle beam method tunnels - Jul 14 2023

web needle beam method tunnels prediction and control of interaction between ground building and tunnel construction process jun 16 2020 this book covers tunnel construction and building construction and design it has two parts part one is for the

method of tunneling concrete civil engineering - Oct 05 2022

web method of tunneling fore poling method ancient method used for running ground now replace by compressed air tunneling method slow tedious method but safe skilled labors and strict provision required needle beam method suitable for firm ground needle beam consist of a stout timber beam from main temporary support

needle beam trolley traveling through hole device on tunnel arc - Feb 26 2022

web the utility model discloses a needle beam trolley traveling through hole device on a tunnel arc section the needle beam trolley traveling through hole device comprises a needle beam

tunnel engineering concrete civil engineering - Dec 07 2022

web needle beam method this method is useful when the soil is hard enough to stand for few minutes a small drift is prepared for inserting a needle beam consisting of two i girders and bolted together with a wooden block in the centre solved which of the following method of tunnelling is being gradual - Apr 30 2022

web method of ground tunneling are as follows 1 fore poling method fore poling method is a very old method and used for running ground the process is slow and tedious and requires skilled labor 2 needle beam method the needle beam consists of a stout timber beam or composite beam and forms the main temporary support during the excavation

explain the method of tunnelling in soft rock by needle beam - Apr 11 2023

web the needle beam consists of a stout timber beam or a composite flinched beam and form the main temporary support during the excavation this method is suitable for soils where roof can withstand for a few minutes sequence of operations a drift monkey drift of about 1 metre is driven on the working face

enlist the different methods of tunnelling in soft soil state the - Sep 04 2022

web needle beam method this method is useful for tunneling in the soft ground whose roof soil can stand without support for few minutes in this method 5 to 6 meters long r s joist or timber beams are required in addition to other timber boards and struts

tunnelling methods slideshare - Nov 06 2022

web jan 14 2017 fore poling method ii needle beam method iii belgian method iv austrian method v american method vi english method vii army method or case method viii german method ix italian method ancient method used for running

ground now replace by compressed air tunneling method slow tedious method but safe skilled

needle beam article about needle beam by the free dictionary - Dec 27 2021

web hyperpunch d looms use elliptical and diagonal elliptical needle beam movements that travel in concert with the press felt during the needling process weavexx adds innovative hyperpunch loom nonwovens news the idea 01

needle beam method tunnels home rightster com - Jan 28 2022

web needle beam method tunnels juja italia april 30th 2018 popular warning invalid argument supplied for foreach in srv users serverpilot apps jujaitaly public sidebar php on line 96 tfarchive transformers cartoons transformers april 17th 2018 transformers production bible in the late 90s a fan

solved which one of the following methods is adopted for tunneling - Jun 01 2022

web methods of tunnelling in hard rock methods of tunnelling in soft soil drift method fore poling method heading and benching method needle beam method full face method army method or case method cantilever car dump method american method pilot tunnel method english method perimeter method or german method belgian

6 types of tunneling methods for soft soil the constructor - Jun 13 2023

web which are the types of tunneling methods in soft soil 1 forepoling method 2 needle beam method 3 army method 4 american method 5 english method 6 belgian method

the length of the needle beam used in needle beam method of - Mar 30 2022

web pick up the mechanical ventilation method used for tunnels from the following pick up the correct statement from the following during tunnel excavation which one of the following linings is suitable for shield driven tunnels particularly in the subaqueous regions

6 different methods of tunneling in soft soil constructupdate com - Mar 10 2023

web feb 17 2022 2 needle beam method for firm ground and brick lining the needle beam method is ideal it s made composed of a sturdy wooden beam from the main temporary support when the soil roof can stand for a few minutes the needle beam method is used needle beam length 5 m to 6 m needle beam method sequence

full article needle beams a review taylor francis online - Jul 02 2022

web mar 10 2020 figure 3 intensity propagation after self apodizing truncation a 10 fs pulsed microscale needle beam was obtained by generating a bessel like beam with a gaussian shaped fused silica thin film axicon and truncation by a 30 μm pinhole in the beam waist z 9 mm laser ti sapphire 800 nm central wavelength pinhole position and diameter

infrastructure engg const tech 4 4 needle beam method - May 12 2023

web content sequence of tunneling in hard rock tunneling in soft soil needle beam method new austrian tunneling method natm almost yours 2 weeks on us

tunnel engineering ppt slideshare - Feb 09 2023

web apr 25 2013 the forepoling is an old method and it can be used successfully for carrying out tunnelling operations through ground needle beam method this method is useful when the soil is hard enough to stand for few minutes

needle beam method of tunneling kpstructures - Aug 15 2023

web dec 1 2020 in this article we covers needle beam method of tunneling in soft ground factor affecting the choice of a method size of tunnel type of ground available equipment method of sequence of excavation needle beam method needle beam method suitable for firm ground and brick

railway tunnelling in soft ground or soft rock brainkart - Jan 08 2023

web the needle beam method fig 30 8 is adopted in terrains where the soil permits the roof of the tunnel section to stand without support for a few minutes in this method a small drift is prepared for inserting a needle beam consisting of two rail steel rs joists or i sections and is bolted together with a wooden block in the centre

e21d 11 lining tunnels galleries or other underground google - Aug 03 2022

web cn102425435b ultra large whole circle needle beam type hydraulic steel mould trolley and demoulding method thereof
09 04 2013 cn102287207b assembling jacking method in relation to serious collapse