

Wiley Loose-Leaf Print Edition

J. DAVID IRWIN • R. MARK NELMS

# BASIC ENGINEERING CIRCUIT ANALYSIS

TWELFTH EDITION

## solution manual



WILEY

# Basic Engineering Circuit Analysis Irwin Solutions

**Huangqi Zhang**



**Basic Engineering Circuit Analysis Irwin Solutions:**

## Decoding **Basic Engineering Circuit Analysis Irwin Solutions**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Basic Engineering Circuit Analysis Irwin Solutions**," a mesmerizing literary creation penned by a celebrated wordsmith, readers embark on an enlightening odyssey, unraveling the intricate significance of language and its enduring effect on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

[https://py.bijouxmedusa.com/files/book-search/Download\\_PDFS/online\\_business\\_tools\\_for\\_small\\_business\\_82\\_1569\\_online\\_business\\_trends.pdf](https://py.bijouxmedusa.com/files/book-search/Download_PDFS/online_business_tools_for_small_business_82_1569_online_business_trends.pdf)

### **Table of Contents Basic Engineering Circuit Analysis Irwin Solutions**

1. Understanding the eBook Basic Engineering Circuit Analysis Irwin Solutions
  - The Rise of Digital Reading Basic Engineering Circuit Analysis Irwin Solutions
  - Advantages of eBooks Over Traditional Books
2. Identifying Basic Engineering Circuit Analysis Irwin Solutions
  - 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 Basic Engineering Circuit Analysis Irwin Solutions
  - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Engineering Circuit Analysis Irwin Solutions
  - Personalized Recommendations
  - Basic Engineering Circuit Analysis Irwin Solutions User Reviews and Ratings

- Basic Engineering Circuit Analysis Irwin Solutions and Bestseller Lists
- 5. Accessing Basic Engineering Circuit Analysis Irwin Solutions Free and Paid eBooks
  - Basic Engineering Circuit Analysis Irwin Solutions Public Domain eBooks
  - Basic Engineering Circuit Analysis Irwin Solutions eBook Subscription Services
  - Basic Engineering Circuit Analysis Irwin Solutions Budget-Friendly Options
- 6. Navigating Basic Engineering Circuit Analysis Irwin Solutions eBook Formats
  - ePub, PDF, MOBI, and More
  - Basic Engineering Circuit Analysis Irwin Solutions Compatibility with Devices
  - Basic Engineering Circuit Analysis Irwin Solutions Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Basic Engineering Circuit Analysis Irwin Solutions
  - Highlighting and Note-Taking Basic Engineering Circuit Analysis Irwin Solutions
  - Interactive Elements Basic Engineering Circuit Analysis Irwin Solutions
- 8. Staying Engaged with Basic Engineering Circuit Analysis Irwin Solutions
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Basic Engineering Circuit Analysis Irwin Solutions
- 9. Balancing eBooks and Physical Books Basic Engineering Circuit Analysis Irwin Solutions
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Basic Engineering Circuit Analysis Irwin Solutions
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Basic Engineering Circuit Analysis Irwin Solutions
  - Setting Reading Goals Basic Engineering Circuit Analysis Irwin Solutions
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Basic Engineering Circuit Analysis Irwin Solutions
  - Fact-Checking eBook Content of Basic Engineering Circuit Analysis Irwin Solutions
  - 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

### **Basic Engineering Circuit Analysis Irwin Solutions Introduction**

In this digital age, the convenience of accessing information at our fingertips has become a necessity. Whether its research papers, eBooks, or user manuals, PDF files have become the preferred format for sharing and reading documents. However, the cost associated with purchasing PDF files can sometimes be a barrier for many individuals and organizations. Thankfully, there are numerous websites and platforms that allow users to download free PDF files legally. In this article, we will explore some of the best platforms to download free PDFs. One of the most popular platforms to download free PDF files is Project Gutenberg. This online library offers over 60,000 free eBooks that are in the public domain. From classic literature to historical documents, Project Gutenberg provides a wide range of PDF files that can be downloaded and enjoyed on various devices. The website is user-friendly and allows users to search for specific titles or browse through different categories. Another reliable platform for downloading Basic Engineering Circuit Analysis Irwin Solutions free PDF files is Open Library. With its vast collection of over 1 million eBooks, Open Library has something for every reader. The website offers a seamless experience by providing options to borrow or download PDF files. Users simply need to create a free account to access this treasure trove of knowledge. Open Library also allows users to contribute by uploading and sharing their own PDF files, making it a collaborative platform for book enthusiasts. For those interested in academic resources, there are websites dedicated to providing free PDFs of research papers and scientific articles. One such website is Academia.edu, which allows researchers and scholars to share their work with a global audience. Users can download PDF files of research papers, theses, and dissertations covering a wide range of subjects. Academia.edu also provides a platform for discussions and networking within the academic community. When it comes to downloading Basic Engineering Circuit Analysis Irwin Solutions free PDF files of magazines, brochures, and catalogs, Issuu is a popular choice. This digital publishing platform hosts a vast collection of publications from around the world. Users can search for specific titles or explore various categories and genres. Issuu offers a seamless reading experience with its user-friendly interface and allows users to download PDF files for offline reading. Apart from dedicated platforms, search engines also play a crucial role in finding free PDF files. Google, for instance, has an advanced search feature that allows users to filter results by file type. By specifying

the file type as "PDF," users can find websites that offer free PDF downloads on a specific topic. While downloading Basic Engineering Circuit Analysis Irwin Solutions free PDF files is convenient, its important to note that copyright laws must be respected. Always ensure that the PDF files you download are legally available for free. Many authors and publishers voluntarily provide free PDF versions of their work, but its essential to be cautious and verify the authenticity of the source before downloading Basic Engineering Circuit Analysis Irwin Solutions. In conclusion, the internet offers numerous platforms and websites that allow users to download free PDF files legally. Whether its classic literature, research papers, or magazines, there is something for everyone. The platforms mentioned in this article, such as Project Gutenberg, Open Library, Academia.edu, and Issuu, provide access to a vast collection of PDF files. However, users should always be cautious and verify the legality of the source before downloading Basic Engineering Circuit Analysis Irwin Solutions any PDF files. With these platforms, the world of PDF downloads is just a click away.

### **FAQs About Basic Engineering Circuit Analysis Irwin Solutions Books**

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Basic Engineering Circuit Analysis Irwin Solutions is one of the best book in our library for free trial. We provide copy of Basic Engineering Circuit Analysis Irwin Solutions in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Basic Engineering Circuit Analysis Irwin Solutions. Where to download Basic Engineering Circuit Analysis Irwin Solutions online for free? Are you looking for Basic Engineering Circuit Analysis Irwin Solutions PDF? This is definitely going to save you time and cash in something you should think about.

**Find Basic Engineering Circuit Analysis Irwin Solutions :**

*online business tools for small business 82-1569 online business trends*

*planning blueprint for startups 82-1756 retirement planning blueprint*

**step for small business 82-2284 print on demand step by step for**

*living checklist for small business 82-2858 sustainable living*

**development explained for small business 82-2145 blockchain development**

*startups 82-169 content marketing roadmap America 82-1325 content*

*examples for small business 82-982 online privacy explained for creators*

*guide America 82-104 credit score improvement guide United States*

**development guide for startups 82-1861 chatbot development ideas United**

*business 82-1979 resume writing trends for startups 82-2301 resume*

*82-704 crypto trading case study for creators 82-2086 crypto trading*

*for startups 82-381 coding for beginners roadmap United States 82-723*

**82-373 sustainable living strategies for small business 82-1911**

*business case study United States 82-2715 dropshipping business case*

**online business case study USA 82-1028 online business case study USA**

**Basic Engineering Circuit Analysis Irwin Solutions :**

**the case against perfection ethics in the age of genetic** - Dec 31 2022

web the case against perfection explores these and other moral quandaries connected with the quest to perfect ourselves and our children michael sandel argues that the pursuit of perfection is flawed for reasons that go beyond safety and fairness

**the case against perfection ethics in the age of researchgate** - Mar 22 2022

web jan 1 2011 the case against perfection ethics in the age of genetic engineering review brian g henning abstract i often tell my students that my job as their professor is not to give them nice tidy

the case against perfection ethics in the age of genetic - Sep 08 2023

web the ethic of giftedness under siege in sports persists in the practice of parenting but here too bioengineering and genetic enhancement threaten to dislodge it to appreciate children as gifts is to accept them as they come not as objects of our design or products of our will or instruments of our ambition

**michael j sandel the case against perfection ethics in the age** - Nov 29 2022

web pdf on jun 1 2009 ilhan ilkilic and others published michael j sandel the case against perfection ethics in the age of genetic engineering find read and cite all the research you need on

**the case against perfection ethics in the age of genetic** - Aug 27 2022

web jul 8 2007 by william saletan july 8 2007 three years ago in the atlantic the harvard philosopher michael sandel wrote a critique of genetic engineering titled the case against perfection now he

**the case against perfection de gruyter** - Apr 03 2023

web the case against perfection ethics in the age of genetic engineering michael j sandel p cm includes bibliographical references and index isbn 13 978 0 674 01927 0 alk paper isbn 10 0 674 01927 x alk paper 1 genetic engineering moral and ethical aspects i title qh438 7 s2634 2007 174 957 dc22 2006039327 for adam and aaron

the case against perfection ethics in the age of genetic engineering - Jul 06 2023

web pdf on oct 1 2007 harry ostrer published the case against perfection ethics in the age of genetic engineering find read and cite all the research you need on researchgate

the case against perfection ethics in the age of genetic - Aug 07 2023

web ethics the stem cell debate in which he explains how his position against genetic enhancement is consistent with its use in research on embryonic stem cells to cure disease

*the case against perfection ethics in the age of genetic* - Oct 09 2023

web aug 16 2016 the case against perfection by michael sandel is a brief concise and dazzling argument by one of america s foremost moral and political thinkers that brings you up to speed on the core ethical issues informing current debates about genetic engineering and stem cell research gabriel gbadamosi bbc radio

**the case against perfection ethics in the age of genetic** - Jul 26 2022

web the case against perfection ethics in the age of genetic engineering ebook written by michael j sandel read this book using google play books app on your pc android ios devices download for offline reading highlight bookmark or take notes while you read the case against perfection ethics in the age of genetic engineering

**the case against perfection michael j sandel** - Feb 01 2023

web sep 30 2009 carrying us beyond familiar terms of political discourse this book contends that the genetic revolution will change the way philosophers discuss ethics and will force spiritual questions back onto the political agenda in order to grapple with the ethics of enhancement we need to confront questions largely lost from view in the modern world

**the case against perfection ethics in the age of genetic** - Oct 29 2022

web oct 1 2007 the case against perfection ethics in the age of genetic engineering reviewed by harry ostrer michael j sandel belknap press cambridge massachusetts usa 2007 176 pp 18 95 isbn 978 0674019270 hardcover author information

copyright and license information

**book review the case against perfection ethics in the age of** - Jun 24 2022

web feb 1 2010 based on the case against perfection ethics in the age of genetic engineering by sandel michael j cambridge ma the bilknap press of harvard university press 2007 128 pages volume 77 issue 1

**the case against perfection ethics in the age of** - May 24 2022

web 2009 2023 bioethics research library box 571212 washington dc 20057 1212 202 687 3885

**the case against perfection ethics in the age of genetic** - Sep 27 2022

web what is wrong with re engineering our nature the case against perfection explores these and other moral quandaries connected with the quest to perfect ourselves and our children michael

**the case against perfection de gruyter** - Mar 02 2023

web jul 1 2009 the case against perfection by michael sandel is a brief concise and dazzling argument by one of america s foremost moral and political thinkers that brings you up to speed on the core ethical issues informing current debates about genetic engineering and stem cell research gabriel gbadamosi bbc radio

**the case against perfection michael j sandel** - Apr 22 2022

web sep 30 2009 in a highly readable wise and little book titled the case against perfection ethics in the age of genetic engineering michael sandel argues that parents quest to create the ideal child reflects a drive for mastery and domination over life douglas todd vancouver sun

*review the case against perfection ethics in the age of* - Feb 18 2022

web aug 5 2020 pdf the case against perfection ethics in the age of genetic engineering 2007 was written by the philosopher and professor michael j sandel find read and cite all the research

the case against perfection ethics in the age of genetic - May 04 2023

web what is wrong with re engineering our nature the case against perfection explores these and other moral quandaries connected with the quest to perfect ourselves and our children michael sandal argues that the pursuit of perfection is flawed for reasons that go beyond safety and fairness

the case against perfection ethics in the age of genetic - Jun 05 2023

web the case against perfection ethics in the age of genetic engineering michael j sandel harvard university press 2007 medical 162 pages sandel explores a paramount question of our era

*bogglesworld answer key food web* - Mar 09 2023

web bogglesworld answer key food web recognizing the mannerism ways to get this book bogglesworld answer key food web is additionally useful you have remained in

[bogglesworld answer key food web](#) - Feb 25 2022

web bogglesworld answer key food web pdf introduction bogglesworld answer key food web pdf pdf gpu pro 7 wolfgang engel 2016 03 23 the latest edition of this

**bogglesworld answer key food web pdf pdf** - Dec 26 2021

web jun 6 2023 bogglesworld answer key food web but end up in harmful downloads rather than reading a good book with a cup of tea in the afternoon instead they cope

[food chain and food web worksheets bogglesworldesl.com](#) - Aug 14 2023

web these worksheets can be used to review concepts related to food chains or food webs herbivore carnivore omnivore and more this worksheet demonstrates how some

**bogglesworld answer key food web pdf uniport edu** - Sep 03 2022

web bogglesworld answer key food web food web crossword lanternfish esl food web crossword puzzle exploring nature food webs food chains science

**bogglesworld answer key food web customizer monos.com** - Mar 29 2022

web right here we have countless books bogglesworld answer key food web and collections to check out we additionally manage to pay for variant types and as well as

*food web crossword* - Jun 12 2023

web many food chains linked together 12 an animal that finds already dead animals to eat 14 an animal that hunts other animals 15 many filter feeders in the ocean eat this 18

[esl teacher resources job boards and worksheets](#) - Jul 13 2023

web food chain worksheets activities and worksheets to teach concepts related to food webs and food chains word skills cloze activities this section contains worksheet

**bogglesworld answer key food web pdf uniport edu** - Aug 02 2022

web bogglesworld answer key food web bogglesworld answer key food web auto joebuhlig.com food web crossword lanternfish esl food web

*bogglesworld answer key food web pdf pdf election* - Sep 22 2021

**bogglesworld answer key food web 2022 old nziob.org** - Dec 06 2022

web apr 9 2023 bogglesworld answer key food web is available in our digital library an online access to it is set as public so you can get it instantly our books collection hosts

*bogglesworld answer key food web copy dev carrera10kfem* - Jul 01 2022

web bogglesworld answer key food web pdf pages 3 9 bogglesworld answer key food web pdf upload mita s williamson 3 9 downloaded from china int indonesia travel on

**super quiz game teacher s choice bogglesworldesl com** - Feb 08 2023

web super quiz game teacher s choice choose any 4 categories below and press submit to generate a quiz game with those 4 categories note if you choose more than 4 topics

esl quiz game single topics - Nov 05 2022

web may 21 2023 bogglesworld answer key food web 1 7 downloaded from uniport edu ng on may 21 2023 by guest bogglesworld answer key food web when somebody

esl quiz game - Jan 07 2023

web bogglesworld answer key food web 1 bogglesworld answer key food web this is likewise one of the factors by obtaining the soft documents of this bogglesworld

*bogglesworld answer key food web 2015eeglobalsip* - Oct 04 2022

web jun 15 2023 bogglesworld answer key food web 1 6 downloaded from uniport edu ng on june 15 2023 by guest bogglesworld answer key food web eventually you will

**bogglesworld answer key food web** - Jan 27 2022

web jun 26 2023 answer key food web but end up in infectious downloads rather than reading a good book with a cup of coffee in the afternoon instead they are facing with

bogglesworld answer key food web pdf uniport edu - Oct 24 2021

**esl teacher resources job boards and worksheets** - Apr 10 2023

web answer key seeds need dirt to grow seeds need rain to grow seeds need sun to grow farmers plant the crops crows steal the crops farmers harvest the crops scarecrows

*bogglesworld answer key food web pdf china int indonesia travel* - Apr 29 2022

web aug 7 2023 enjoy now is bogglesworld answer key food web below essential korean reader jaemin roh 2017 07 14 first published in 2017 essential korean reader

**bogglesworld answer key food web copy uniport edu** - Nov 24 2021

web in addition it contains a suggestions for additional activities and an exercise answers egypt dan richardson 1996 packed with practical tips on where to find the best hotels

**bogglesworld answer key food web pdf copy** - May 11 2023

web may 28 2023 as this bogglesworld answer key food web pdf it ends stirring innate one of the favored books

bogglesworld answer key food web pdf collections that we

**bogglesworld answer key food web dev carrera10kfem** - May 31 2022

web bogglesworld answer key food web downloaded from customizer monos com by guest carrillo martinez the european language portfolio cambridge university press

supplementary trigonometry exercise problems city university - Nov 28 2022

web 70 trig section 1 2 the trigonometric ratios multiple choice find the value of the indicated trigonometric function of the angle  $\theta$  in the figure give an exact answer with a rational denominator find  $\cot \theta$  use the given triangles to evaluate the expression rationalize all denominators 8  $\tan 30$  9  $\csc 60$  10  $\tan 45$  11  $\cot 60$

**unit circle practice radians quiz purposegames** - Jun 23 2022

web sep 6 2023 unit circle practice radians by sarahckelly 1 135 945 plays 16 questions 40 sec english 16p 26 4 07 you not rated tries unlimited last played september 6 2023 06 26 pm there is a printable worksheet available for download here so you can take the quiz with pen and paper remaining 0 correct 0 wrong 0 press

unit circle matching quiz purposegames - Feb 17 2022

web feb 22 2022 unit circle matching quiz information this is an online quiz called unit circle matching you can use it as unit circle matching practice completely free to play there is a printable worksheet available for download here so you can take the quiz with pen and paper currently most played

*unit circle basics 460 plays quizizz* - Sep 26 2022

web 7th 10th unit circle basics quiz for 9th grade students find other quizzes for mathematics and more on quizizz for free

**the unit circle practice test questions chapter exam** - May 03 2023

web test and improve your knowledge of the unit circle with fun multiple choice exams you can take online with study com

*unit circle 1k plays quizizz* - Apr 02 2023

web 17 questions copy edit show answers see preview multiple choice 30 seconds 1 pt the unit circle has center at 1 1 has a circumference of 1 has a diameter of 1 has a radius of 1 multiple choice 30 seconds 1 pt the hypotenuse of any right triangle from the center of the unit circle to an edge is always  $1\sqrt{2}$   $2\sqrt{3}$   $2$   $1$   $2$  multiple choice

**trigonometry functions and unit circle test study guide** - May 23 2022

web trigonometry functions and unit circle test study guide test covers given a right triangle find 6 trig functions given the value of one trig ratio find the other 5 trig ratios given a point on the unit circle find the 6 trig ratios relative to the angle formed solve right triangles find arc lengths and sector areas of circles

**unit circle game interactive quiz on unit circle radians degrees** - Mar 01 2023

web unit circle lesson game directions 0 0 0 0 3 2 12 3 2 1 2 2 2 2 2 2 2 2 12 3 2 1 2 3 2 0 1 0 1 12 3 2 1 2 3 2 2 2 2 2 2 2

2

**the unit circle tests math portal** - Dec 30 2022

web an angle in standard form with a measure of lies in what quadrant the point is on the unit circle find such that the point a is on the unit circle find x such that the point a is on the unit circle the online math tests and quizzes on

unit circle practice 4 2k plays quizizz - Oct 08 2023

web unit circle practice steve venn 4 2k plays 36 questions copy edit live session assign show answers see preview multiple choice 20 seconds 1 pt based on your unit circle cos 0o 1 0 1 1 2 multiple choice 20 seconds 1 pt based on your unit circle sin 90o 1 2 0 1 1 multiple choice 20 seconds 1 pt sin 5π 3 1 2 3 2 3 2 1 2

unit circle practice trigonometry khan academy - Jul 05 2023

web for each point on the unit circle select the angle that corresponds to it click each dot on the image to select an answer created with raphaël y x a b c 1 1 1 1

unit circle 4 3 practice quiz state college area school district - Mar 21 2022

web i give the exact values of the following think unit circle cos 900 2 sin 1350 4 cos 1500 5 sin 2250 7 cos 5 π 4 8 sin 5 π q unit circle thatquiz - Sep 07 2023

web just type in the number match the radian measure to the correct position around the unit circle drag and drop your answers onto the circle 7π 6

**unit circle quiz all values purposegames** - Jul 25 2022

web nov 7 2023 unit circle quiz all values quiz information this is an online quiz called unit circle quiz all values you can use it as unit circle quiz all values practice completely free to play there is a printable worksheet available for download here so you can take the quiz with pen and paper

unit circle 183 plays quizizz - Oct 28 2022

web please save your changes before editing any questions 30 seconds 1 pt find the point on the unit circle associated with the angle 5π 3 1 2 1 2 3 2 1 2 1 2 3 2 3 2 1 2 multiple choice

questions on unit circles in trigonometry free mathematics - Jun 04 2023

web questions on unit circles in trigonometry multiple choice questions on unit circle in trigonometry with answers at the bottom of the page questions and their answers question 1 which of the following points is in the unit circle a 2 2 2 2 b 2 3 2 3 c 1 2 1 2 d 3 2 2 3 question 2

**the unit circle city university of new york** - Aug 06 2023

web multiple choice choose the one alternative that best completes the statement or answers the question the figure shows angle  $\theta$  in standard position with its terminal side intersecting the unit circle evaluate  $\sin \theta$  and  $\cos \theta$  4 csc 270 5 sin 270 8

sec 900 answer key testname the unit circle b d c d d d b c 3

**unit circle quiz purposegames** - Jan 31 2023

web aug 14 2023 a unit circle game plus signs aren t working so i used x instead the xs are in the quadrant labels unit circle quiz information this is an online quiz called unit circle 20p multiple choice actions add to tournament add to playlist print worksheet game statistics give a nod to the creator share

*unit circle practice quizizz* - Aug 26 2022

web 7th 10th unit circle practice quiz for 8th grade students find other quizzes for mathematics and more on quizizz for free

[click the unit circle quiz](#) - Apr 21 2022

web can you pick the degrees of the unit circle when given the matching angle in radians by mhershfield follow send a message see more by this creator 2m click on regions of an image quiz plays in practice mode will not be counted towards challenge completion or badge progress 02 00 give up last update mar 14 2018 editor pick