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Exploring Innovative, Technology-Driven Sustainable Solutions for Holistic Child Development in Rivers State, Nigeria

Egumah-NyemsDuke, N. C.

Department of Home Economics, Hospitality and Tourism, Ignatius Ajuru University of Education,
Port Harcourt, Nigeria

*Corresponding author email: d.ashara82@gmail.com

Abstract

This study examined innovative, technology-driven sustainable solutions for promoting holistic child development in Rivers State, Nigeria, in line with the conference theme, Turning Ideas into Impact: Showcasing Innovations, Technologies and Sustainable Solutions. Specifically, the study identified innovative approaches and emerging technologies that can enhance holistic child development and examined the role of sustainable community-based interventions in improving children's health, nutrition, education, protection, and psychosocial well-being. A descriptive survey research design was adopted. The population consisted of 5,486 stakeholders concerned with child development in Rivers State, whereas 372 respondents were chosen through multistage selection approaches. Data were obtained using a researcher-produced questionnaire called the Innovative, Technology-Driven and Sustainable Solutions for Holistic Child Development Questionnaire (ITSSHCDQ). The instrument was evaluated by specialists and presented a Cronbach's Alpha reliability rating of 0.88. The study questions were answered using the mean and standard deviation, while the hypothesis was tested at a 0.05 level of significance using the Pearson Product-Moment Correlation. The findings indicated that digital learning platforms, mobile health technologies, artificial intelligence, electronic growth monitoring, assistive technologies and digital parental education considerably improve holistic child development. The study also found that sustainable community-based interventions such as community nutrition education, school feeding programs, parenting education, environmental sanitation, child protection initiatives and community participation significantly contribute to the health, nutrition, education, protection and psychosocial well-being of children. The hypothesis demonstrated a substantial positive link ($r = 0.684$, $p < 0.05$) between innovative, technology-driven sustainable solutions and holistic child development. The study found that integrating technology and sustainable community engagement is an effective way to improve child development outcomes and fast-track sustainable human capital development in Rivers State and Nigeria.

Keywords: Holistic Child Development, Innovation, Technology-Driven Solutions, Sustainable Interventions, Community Participation.

Introduction

It is well recognized that child development is the foundation for human capital formation and sustainable national development. It includes the physical, cognitive, emotional, social, moral and language development of children from infancy to puberty. Child development in Africa is more than simply biological growth. It is about the impact of family, culture, education, nutrition, healthcare and community support systems. African scholars have continuously contended that investments made in the early years of life impact subsequent educational attainment, productivity, creativity and the capacity of children to contribute effectively to national development. As such, the promotion of

holistic child development has been strategically prioritized by governments pursuing sustainable economic and social transformation (Britto et al., 2017).

The speed of technology development throughout the continent has generated unique chances to improve children's well-being through innovative and sustainable interventions. The growing use of digital technologies, mobile health systems, artificial intelligence (AI), e-learning platforms, digital nutrition education and community-based innovations has revolutionized the provision of health, education, child protection and social services. Bankole and Mimbi (2016), in a multi-country African study, concluded that investment in information and communication technologies enhances health system performance, increases life expectancy and reduces newborn mortality, laying a good foundation for child development. Recent studies from Nigeria have also shown that AI-supported decision systems could significantly increase child immunization coverage and decrease preventable childhood diseases by efficiently allocating health interventions.

Nigeria still faces huge issues of child development, despite the many government policies and development programs. High levels of poverty, malnutrition, inadequate health care, low learning outcomes, digital exclusion, environmental degradation and socio-economic disparities continue to restrict the realization of children's full developmental potential. These issues are particularly manifest in many areas of the Niger Delta, where economic resources have not always translated into improved child care (Federal Ministry of Health, 2019). Recent empirical evidence from Bonny Local Government Area of Rivers State has shown that despite the abundance of natural resources, children's physical, cognitive, emotional and educational development continue to be significantly constrained by poverty, and this underscores the critical need for innovative and sustainable interventions that simultaneously address multiple dimensions of child well-being.

Rivers State maintains a strategic position in Nigeria because of its economic significance, educational institutions and technological potential. But many children, especially those in rural and economically poor communities, still face inequities in access to quality health care, early childhood education, nutrition services, digital learning resources and social protection. Research undertaken in Rivers State shows that ineffective implementation of early childhood education policies, inadequate educational resources, and poor integration of technology into learning environments continue to hinder children's developmental outcomes (United Nations Children's Fund, 2024). The increasing amount of research further indicates that the upgrading of early childhood education continues to be a necessity in the achievement of sustainable development goals in Nigeria.

Innovation has thus become a must-have method for transforming ideas into tangible development results. Innovation in child development involves developing practical solutions for the use of local resources and new technology that improve children's nutrition, health care, and education, as well as their safety, psychosocial well-being and family support. The importance of technology-enabled communication systems, assistive learning devices, digital learning platforms and applications of artificial intelligence as vehicles to improve educational inclusion, especially among children with special needs and those living in underserved communities in Rivers State, is gaining increasing recognition. Recent research has revealed that technology-supported learning settings can enable communication, boost educational involvement and improve learning results with the backing of proper infrastructure and qualified individuals.

Sustainable child development demands integrated approaches that combine technology innovation with indigenous knowledge, community participation, family engagement, and institutional collaboration. African development researchers have stressed that for sustainable interventions to have a long-term effect, they must be culturally suitable, environmentally responsible, economically feasible and community-owned. Quality early childhood education, digital inclusion, nutrition-sensitive programs, community-based child protection systems and parental engagement together create robust pathways for better child developmental outcomes. Additional research from Rivers State suggests that active parental engagement and conducive educational environments have an important role in reducing educational exclusion and improving children's possibilities for lifetime learning.

Also, there is an increasing convergence between the current child development discourse and the Sustainable Development Goals, especially Goals 2, 3, 4, 9, and 10 on nutrition, health, quality education, innovation,

infrastructure, and reduced disparities. Achieving these targets demands moving away from individual treatments toward integrated systems that make use of research, innovation, digital technology, and sustained community collaborations. As noted by current Nigerian academics, investments in innovation and research immediately lead to advances in education, health and total human development. Thus, innovation is a vital driver of sustainable development in emerging economies.

In this vein, the pressing need to translate new ideas into practical and sustainable solutions toward holistic child development advancement in Rivers State has become urgent. Emerging technology and locally-driven, community-based approaches offer important prospects to improve child nutrition, health, education, protection and psychosocial well-being while also enhancing human capital development. Therefore, this study investigates creative, technology-driven and sustainable solutions that have the potential to alter child development outcomes in Rivers State, Nigeria and presents practical routes for turning innovation into verifiable societal benefit.

Despite the several interventions targeted at improving the welfare of the child in Nigeria, many children are still suffering from malnutrition, poor health care, lack of learning, lack of quality early childhood education, lack of psychosocial support and exposure to poverty and environmental hazards. However, obstacles still exist in Rivers State. Socio-economic inequality, environmental degradation, flooding and unequal distribution of basic social services continue to impede the holistic development of children. Despite the huge prospects for enhancing child outcomes presented by breakthroughs in digital technology, artificial intelligence, mobile health systems, educational technologies and community-based innovations, their uptake in child development programs in Rivers State has been restricted. Existing initiatives tend to be sector-specific, fragmented and poorly coordinated, leading to duplication of effort and limited long-term benefit. Moreover, many of the child-focused programs have not fully embedded sustainable solutions that encourage local ownership, resilience, environmental sustainability and ongoing innovation. Without innovative, technology-driven and sustainable approaches that integrate health, nutrition, education, protection and responsive caregiving, many children may continue to suffer developmental delays that constrain their educational achievement, productivity and future contribution to society. There is therefore an urgent need for identification and promotion of practical solutions that will help transform innovative ideas into measurable outcomes that will support holistic child development in Rivers State, Nigeria.

The purpose of this study was to explore technology-driven and sustainable ways of supporting holistic child development in Rivers State, Nigeria. The study's objectives are to:

1. Identify novel ways and emerging technologies that will boost holistic child development in Rivers State, Nigeria.
2. Describe the importance of sustainable community-based interventions in enhancing children's health, nutrition, education, protection and psychosocial well-being.

The following hypothesis was tested at a 0.05 level of significance:

H₀: There is no significant relationship between innovative, technology-driven sustainable solutions and holistic child development in Rivers State, Nigeria.

Methodology

Research Design: This study adopted a descriptive survey research design. The design was considered appropriate because it enabled the researcher to obtain information from relevant stakeholders regarding innovative, technology-driven, and sustainable solutions for promoting holistic child development in Rivers State, Nigeria. The study was conducted in Rivers State, Nigeria. Rivers State is in the South-South geopolitical zone and has twenty-three (23) Local Government Areas. The State is characterised by rising urbanisation, increasing digital infrastructure, numerous educational institutions, healthcare facilities and diversified socio-economic activity, especially in the oil and gas sector. Nevertheless, despite these developmental gains, many communities still face challenges of child nutrition, quality education, access to healthcare, environmental pollution, poverty and social inequalities. Thus, the State provides a strong setting for studying innovative and sustainable approaches to holistic child development. **Study Population:** The study population consisted of 5,486 stakeholders in child development in Rivers State, Nigeria (Ministry of Education, Rivers State, 2025). Specifically, the population included 1,248 Early Childhood Care and Development and Education (ECCDE) teachers, 2,965 primary school teachers, 643 healthcare professionals (nurses,

community health officers and nutritionists), 130 social welfare officers and 500 parents of children aged 0–8 in Rivers State. Sample and Sampling Technique: A sample of 372 respondents was selected from the population of public primary schools, primary healthcare centres, and community-based child development programs using the Taro Yamane (1967) sample size determination formula at a 5% level of precision.

A multistage sampling procedure was adopted. First, six Local Government Areas were purposively selected to represent the three senatorial districts of Rivers State. Second, schools, primary healthcare centers, and communities were selected using simple random sampling. Finally, proportionate stratified random sampling was employed to select respondents from each stakeholder category according to their population size. Data were obtained by a researcher-made questionnaire titled “Innovative, Technology-Driven and Sustainable Solutions for Holistic Child Development Questionnaire (ITSSHCDQ). Section A: Demographic characteristics of respondents. Section B: Items measuring: Innovative child development practices; Technology-driven interventions; Sustainable community solutions; Holistic child development outcomes. Responses were measured using a 4-point Likert rating scale: Strongly Agree (SA) = 4; Agree (A) = 3; Disagree (D) = 2; Strongly Disagree (SD) = 1. The instrument was tested for face and content validity by three experts in Home Economics Education, Early Childhood Education, and Measurement and Evaluation. Their input and suggestions were used to improve the clarity, relevance and adequacy of the questionnaire items. The reliability of the instrument was established using a pilot study of 30 respondents selected from a bordering state outside the study area. The data obtained were subjected to Cronbach’s Alpha, and the reliability coefficient was found to be 0.88, which shows that the instrument was of high internal consistency and was adequate for the study. The questionnaire was administered by the researcher with the help of trained research assistants who had direct contact with the respondents. Copies of the questionnaire were collected soon after completion to achieve a high return rate. Means and standard deviations were used to address research problems. Decision-making was done using the mean criterion of 2.50, with mean scores of 2.50 and above being agreed and scores below 2.50 considered Disagreed. The hypothesis was tested using Pearson Product Moment Correlation (PPMC) at the 0.05 level of significance. Statistical analyses were performed using the Statistical Package for the Social Sciences (SPSS) version 27.

Results

Table 1: Mean ratings on innovative approaches/emerging technologies that can enhance holistic child development in Rivers State (n = 372)

S/N	Innovative approaches and emerging technologies	Mean ($\bar{X}$)	SD	Decision
1	Digital learning platforms improve children's cognitive development.	3.48	0.64	Agree
2	Mobile health (mHealth) applications enhance child healthcare delivery.	3.44	0.70	Agree
3	Artificial intelligence supports early identification of developmental challenges.	3.31	0.73	Agree
4	Electronic growth monitoring systems improve child nutrition surveillance.	3.36	0.69	Agree
5	Technology-assisted teaching enhances children's learning outcomes.	3.55	0.58	Agree
6	Digital parenting education improves childcare practices.	3.42	0.67	Agree
7	Assistive technologies promote inclusion of children with special needs.	3.47	0.63	Agree
8	Community digital information systems improve access to child development services.	3.39	0.71	Agree
	Grand Mean	3.43	0.67	Agree

Table 1 shows that respondents agreed that innovative approaches and emerging technologies enhance holistic child development in Rivers State. The mean scores ranged from 3.31 to 3.55, all above the criterion mean of 2.50. The highest-rated item was Technology-assisted teaching enhances children's learning outcomes ($\bar{X} = 3.55$, $SD = 0.58$), while the least-rated item was Artificial intelligence supports early identification of developmental challenges

($\bar{X}$ =3.31, SD = 0.73). The overall grand mean of 3.43 indicates strong agreement that innovation and technology play significant roles in promoting holistic child development.

Table 2: Mean ratings on sustainable community-based interventions in improving children's health, nutrition, education, protection and psychosocial well-being (n = 372)

S/N	Sustainable community-based interventions	Mean ($\bar{X}$)	SD	Decision
1	Community nutrition education improves children's nutritional status.	3.61	0.55	Agree
2	School feeding programmes improve children's health and school attendance.	3.58	0.60	Agree
3	Community health outreach programmes improve child healthcare.	3.54	0.62	Agree
4	Parenting education strengthens children's psychosocial well-being.	3.49	0.65	Agree
5	Community child protection committees reduce child abuse and neglect.	3.40	0.70	Agree
6	Environmental sanitation programmes improve children's health.	3.46	0.68	Agree
7	Public-private partnerships improve access to child development services.	3.37	0.71	Agree
8	Community participation enhances sustainability of CDP.	3.63	0.53	Agree
	Grand Mean	3.51	0.63	Agree

Table 2 reveals that respondents agreed that sustainable community-based interventions significantly improve children's health, nutrition, education, protection, and psychosocial well-being. The mean scores ranged from 3.37 to 3.63, all exceeding the benchmark of 2.50. Community participation enhances sustainability of child development programmes received the highest mean score ($\bar{X}$ = 3.63, SD = 0.53), while Public-private partnerships improve access to child development services recorded the lowest mean score ($\bar{X}$ = 3.37, SD = 0.71). The grand mean of 3.51 indicates that sustainable community interventions are widely perceived as effective mechanisms for promoting holistic child development in Rivers State.

Table 3: Pearson Product Moment Correlation (PPMC) showing the relationship between innovative technology-driven sustainable solutions and holistic child development (n = 372)

Variables	n	r-value	p-value	Decision
Innovative, technology-driven and sustainable solutions	372	0.684	0.000	Significant
Holistic child development				

Level of significance = 0.05; since the p-value (0.000) is less than 0.05, the null hypothesis (H_0) is rejected.

Table 3 shows a substantial, statistically significant positive association between technology-driven sustainable solutions and holistic child development in Rivers State ($r = 0.684$, $p < 0.05$). This means that greater use of new technology and sustainable, community-based treatments is associated with better child health, nutrition, education, protection, and psychosocial well-being. Hence, the null hypothesis that there is no substantial association between innovative, technology-driven and sustainable solutions and holistic child development is rejected. The results show that combining innovation, digital technologies, and sustainable community projects can significantly improve holistic child development outcomes in Rivers State, Nigeria.

Discussion

The results showed that stakeholders strongly agreed that new techniques and emerging technologies can considerably improve holistic child development in Rivers State, Nigeria. Respondents acknowledged the importance of digital learning platforms, mobile health (mHealth) applications, artificial intelligence (AI), electronic growth monitoring systems, assistive technologies and digital parenting education in supporting children's cognitive, physical, emotional and social development. This finding reflects the growing consensus on the importance of digital innovation as a driver of quality education, healthcare delivery, and child welfare across Africa. This aligns with Bankole and Mimbi (2016), who found that investment in Information and Communication Technology (ICT) leads to considerable improvements in health outcomes and better human development indicators in African countries. The authors state that improved access to digital technologies increases healthcare delivery, life expectancy, and decreases infant mortality by providing prompt access to health information and services. Similarly, the World Health Organisation (2021) reaffirmed that digital health technologies such as mobile health systems and electronic health records can enhance

access to quality healthcare, strengthen disease surveillance, and support effective child health interventions, particularly in low- and middle-income countries.

The finding also supports the Nurturing Care Framework developed by Britto et al. (2017), which emphasises the need for integrated interventions involving good health, adequate nutrition, responsive caregiving, security and safety, and opportunities for early learning to support children's optimal development. The paradigm also suggests that technological developments offer real potential to deliver these services more effectively and equitably, particularly in resource-constrained contexts. Similarly, UNICEF Nigeria (2024) noted that digital technologies are progressively boosting service delivery in maternity and child healthcare, education, nutrition, birth registration, and child protection across Nigeria, thereby contributing to improved developmental outcomes. The study also found that sustained community-based interventions greatly improve children's health, nutrition, education, protection and psychosocial well-being. Respondents believed that community nutrition education, school feeding programs, parenting education, environmental sanitation, child safety measures, and community participation are crucial components of holistic child development. Such a conclusion validates the concept that child development cannot be achieved through technological advancements alone but requires active involvement of the community and sustainable local participation.

This finding aligns with UNICEF Nigeria (2023), which found that improving baby and young child feeding practices through community nutrition education considerably improves children's nutritional status in the first 1,000 days of life. The research emphasised the ongoing, crucial role of community health professionals, caregivers, and local institutions in improving child nutrition and curbing malnutrition in Nigeria. Similarly, Ihome et al. (2026) revealed that maternal nutrition education, community support systems and improved newborn feeding practices strongly influence child growth and nutritional outcomes among Nigerian children. These findings indicate that nutrition education programs for sustainable development are still needed for healthy child development.

In addition, the attention given to parenting education and community participation in this study corresponds to the recommendations of the National Policy on Food and Nutrition in Nigeria (Federal Ministry of Budget and National Planning, 2021), which suggests integrated community-based interventions encompassing nutrition education, health promotion, food security, sanitation and social protection as effective strategies for enhancing child well-being. The strategy recognises that sustainable child development is dependent on concerted initiatives by homes, communities, educational institutions, health providers and government agencies. This study found a statistically significant positive association between creative, technology-driven, and sustainable solutions and holistic child development in Rivers State. This conclusion implies that increases in technology innovation and sustained community interventions are associated with improvements in children's health, education, nutrition, protection, and psychosocial well-being. This study is in line with previous findings of Kehinde et al. (2024) that artificial intelligence might enhance children's immunisation planning and healthcare decision-making in Nigeria through the identification of underserved populations and the optimisation of resource allocation. "AI-driven systems can play a major role in reducing vaccine-preventable diseases and improving child survival," the scientists said.

Echoed in the UNICEF (2024) State of the World's Children Report, the same is stated: the digital transformation offers opportunities for governments to strengthen child-focused policies, improve educational access, expand healthcare delivery, and protect vulnerable children through evidence-based decision-making. The research highlights that community-based interventions must be additive, not a substitute, because sustained child development depends on the cooperation of governments, families, schools, health care institutions and communities. The findings also corroborate the perspective of the African Union (2024) that recognises innovation, digital transformation and human capital development as essential drivers in accomplishing Agenda 2063. The African Union says investments in children's education, nutrition, healthcare, and digital inclusion are key to building resilient societies that support long-term socio-economic progress. This policy perspective highlights the need for African countries, including Nigeria, to combine technical innovation with community-led action to enhance developmental outcomes.

The findings suggest that innovation and sustainability complement, rather than compete with, one another in supporting child development. Technology improves access, efficiency, monitoring and delivery of services, but sustainable community participation promotes ownership, cultural relevance, continuity and long-term success of

initiatives. Therefore, the use of digital technology in community-based nutrition education, excellent health care, early childhood education and child safety offers a holistic strategy to the promotion of children's entire well-being. The findings are of special relevance to Rivers State as the expansion of digital infrastructure, educational expansion and community development activities present potential for the implementation of integrated child development programs. The translation of creative ideas into practical, technology-driven and sustainable initiatives would help boost human capital development, eliminate inequities among children, and significantly advance the Sustainable Development Goals, particularly Goals 2, 3, 4, 9 and 10. The findings therefore strongly support the conference theme, "Turning Ideas into Impact: Showcasing Innovations, Technologies and Sustainable Solutions" by demonstrating that innovation combined with sustainable community engagement can significantly improve holistic child development in Rivers State and Nigeria in general.

Conclusion

The study indicates that promotion of holistic child development in Rivers State requires a strategic mix of innovation, technology and sustainable community-based interventions. The results show that emerging technologies, including digital learning platforms, mobile health applications, artificial intelligence, electronic growth monitoring systems, and assistive technologies, have enormous potential to improve children's cognitive, physical, emotional, social and educational development. Similarly, nutrition education, school feeding programs, parenting education, environmental sanitation, community participation and child protection measures are necessary to guarantee the overall well-being of children through sustained community-oriented efforts. The strong positive correlation between innovative, technology-based, sustainable solutions and holistic child development further supports the proposition that child development outcomes can improve significantly when technological innovations are combined with community ownership, supportive public policies, and multi-sectoral collaboration. Sustainable child development involves cohesive efforts by government agencies, educational institutions, health-care providers, development partners, community leaders, parents and the commercial sector. Rivers State can improve human capital development, eliminate developmental inequities, and make a meaningful contribution toward achieving the Sustainable Development Goals by translating innovative ideas into implementable, sustainable solutions.

Recommendations

Based on the findings of this study, the following recommendations are suggested:

1. The Rivers State Government should spend more on digital infrastructure, artificial intelligence applications and technology-enabled child development programs in schools, primary health care centres, and community institutions.
2. Ministries of Education, Health and Social Welfare should design integrated child development policies that include innovation, nutrition, health, education, child safety and psychosocial support through inter-sectoral collaboration.
3. Educational institutions should increase the synergy between digital learning platforms, assistive technology and teacher training programs to achieve better learning outcomes and educational inclusion for all children.
4. Healthcare providers and community health workers should increase the use of mobile health technologies, electronic child growth monitoring systems and digital nutrition education to promote child health, immunization coverage and nutritional status.
5. Community leaders, parents, non-governmental organisations and development partners should promote sustainable community participation through parenting education, community nutrition programs, school feeding initiatives, child protection committees and environmental sanitation campaigns to ensure long-term improvements in children's holistic development.

References

- African Union Commission, & International Organization for Migration. (2024). *Africa migration report: Linking policy, practice and the welfare of the African migrant* (2nd ed.). African Union Commission and International Organization for Migration.
- Bankole, F. O., & Mimbi, L. (2016). *ICT and health system performance in Africa: A multi-method approach*. arXiv. <https://arxiv.org/abs/1605.01151>
- Britto, P. R., Lye, S. J., Proulx, K., Yousafzai, A. K., Matthews, S. G., Vaivada, T., Perez-Escamilla, R., Rao, N., Ip, P., Fernald, L. C. H., MacMillan, H., Hanson, M., Wachs, T. D., Yao, H., Yoshikawa, H., Cerezo, A.

- Federal Ministry of Budget and National Planning. (2021). *National policy on food and nutrition in Nigeria*. Federal Government of Nigeria.
- Federal Ministry of Health. (2019). *National strategic health development plan II (2018–2022)*. Federal Ministry of Health.
- Iheme, G. O., Hajara, I., Adebare, A. F., Edafioghor, L. O., Ortutu, B. F., Uche, C. P., Owoyemi, T. L., Egechizuorom, I. M., Oyebamiji, E. A., & Ogbonna, O. C. (2026). Child feeding practices and nutritional status of children aged 6–23 months in Nigeria: A multi-site survey. *Pediatrics*, 26, 550. <https://doi.org/10.1186/s12887-026-07075-z>
- Kehinde, O., Abdul, R., Afolabi, B., Vir, P., Namblard, C., Mukhopadhyay, A., & Adereni, A. (2024). Deploying ADVISER: Impact and lessons from using artificial intelligence for child vaccination uptake in Nigeria. *Proceedings of the AAAI Conference on Artificial Intelligence*, 38(20), 22185–22192. <https://doi.org/10.1609/aaai.v38i20.30223>.
- Rivers State Ministry of Education. (2025). *Quarterly report*. Rivers State Government.
- United Nations Children's Fund. (2023). *First 1,000 days formative study report*. UNICEF Nigeria.
- United Nations Children's Fund. (2024). *The state of Nigeria's children 2024: Updated situation analysis of children and adolescents in Nigeria*. UNICEF Nigeria.
- World Health Organisation. (2021). *Global strategy on digital health 2020–2025*. World Health Organisation.
- World Health Organisation, United Nations Children's Fund, & World Bank. (2021). *Nurturing care for early childhood development: A framework for helping children survive and thrive to transform health and human potential*. World Health Organisation.
- Yamane, T. (1967). *Statistics: An introductory analysis*. 2nd Edition, Harper and Row, New York.